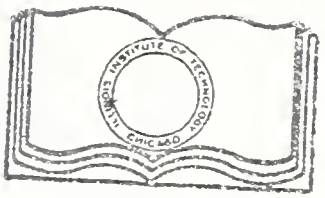

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For further information on this release, contact:

John Love
VI2-9417

OR RELEASE:

IMMEDIATE

January 4, 1963

CHICAGO, ILL. -- Dan Benevich, 6'4", 200 pound senior forward and captain of the Illinois Institute of Technology Techawks, has been named most valuable player in the Rochester Institute of Technology Tech Tourney for 1962. The little All-American candidate from IIT scored 65 points in three games as he led IIT to the consolation championship. Even in his low game of the tourney when he had 16 points in IIT's 35-32 conquest over West Virginia Tech, his five points in the overtime period were the deciding factor.

Although Benevich's average dropped in the RIT Tourney, he still has a 23.9 points per game average. Last season he led the Techawks to a 14-7 record with a 23 point average.

Benevich went to Chicago's St. Ignatius High School, where he finished fifth in scoring in Chicago's Catholic League. Through the tourney, Benevich has now a collegiate point total of 1205, third best in IIT's history.

Besides being picked as the most valuable player in the RIT Tourney, Benevich was picked on the All-Tourney first team for the second straight year.

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VI2-9417

FOR RELEASE: IMMEDIATE

January 4, 1963

CHICAGO, ILL. -- On Tuesday, January 8 the Illinois Institute of Technology Techawks will go after its first victory of the new year and its sixth of the season as it hosts the University of Chicago. The varsity game will start at 8:00 at Dunbar High School, located at 30th Street and South Parkway, and will be preceeded by a 6:30 J-V game.

Last season the Techawks beat the Maroons 56-33 at Chicago and 59-47 at home. The veteran Maroon team will be out to turn the tables on IIT this season, as they have an impressive 5-1 record to date. The Maroons are led by the rebounding of 6'8" center Gene Ericksen and the scoring of seniors Joel Zemans and Larry Liss.

Captain Dan Benevich has been the top scorer and rebounder for the Techawks this season. He has averaged close to 24 points a game and was chosen "Most Valuable Player" in the Rochester Tech Christmas Tourney.

In winning the RIT Tournament Consolation Championship, IIT had to go into overtime to beat pre-tourney favorite West Virginia Tech. The loss was only the second in eleven games for West Virginia Tech, who slowed down the game but could not crack IIT's zone defense. The win was sweet revenge for IIT coach Ed Glancy, as the same team had upset the favored Techawks the year before 21-19 in another slow-down, overtime game.

IIT's next game after Chicago will be on January 15 at Chicago Teachers College.

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For further information on this release, contact:

Ed Hansen
CAlumet 5-9600, Ext. 2747

FOR RELEASE:

IMMEDIATE

January 7, 1963

CHICAGO, ILL. -- Illinois Institute of Technology's chemistry department was recently awarded two National Science Foundation grants totaling $39,095. The funds will be used to conduct a research participation program this summer for high school and college chemistry teachers.

Teachers who take part in the program, being held at IIT for the fourth consecutive year, are those with B.S. or higher degrees in chemistry who are interested in research in the field of physical, inorganic, or organic chemistry.

According to Dr. W. W. Brandt, director of the program and assistant professor of chemistry at IIT, the basic aim of the research program is to strengthen chemistry teachers' backgrounds, so that they may improve their teaching and in turn, be better able to stimulate their students to greater scholastic efforts.

Participating teachers will each receive an active research problem to solve during the Summer session, which lasts from 8 to 11 weeks. They will receive $75 to $100 per week stipends from the NSF grant, and will also be given dependency and travel allowances.

Interested teachers can obtain further information by contacting Dr. W. W. Brandt, department of chemistry, Illinois Institute of Technology, Chicago 16, Illinois.

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CAlumet 5-9600, Ext. 2745

OR RELEASE:

IMMEDIATE

January 8, 1963

CHICAGO, ILL. -- A modern approach to engineering was introduced today by Illinois Institute of Technology in an attempt to stem the tide of engineering manpower losses in many of the nation's industries, and to combat the obsolescence of engineering skills brought about by the rapid rate of technological development.

IIT announced plans to initiate its new program, which de-emphasizes overspecialization in specific engineering disciplines, with the start of next year's fall semester. The program will emphasize advanced level instruction in the engineering sciences with a corresponding advanced level professional program in the specialized fields of engineering.

Under the new program, reports Dr. Ralph Owens, dean of the engineering school, common core engineering science courses taught during the sophomore and junior years will replace some of the specialized courses which represent a sizeable portion in many engineering programs today. Common core physical science and mathematics courses will be taught in the freshman and sophomore years to all students majoring in engineering, as well as to majors in the physical sciences and mathematics.

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The new IIT curriculum provides engineering students with the strongest possible background in the physical sciences, mathematics, and the engineering sciences, Owens said. He commented that, based on this broad foundation, it would then be possible to build an exceptionally strong professional engineering program.

In addition, the IIT program will bring the engineering student into contact with the realities of modern-day automation by making a basic computer programming course mandatory for all engineering majors, he went on.

Commenting on the deficiencies of overspecialized programs, Owens said that present day needs of industry and government call for engineers with maximum adaptability and versatility within their own fields of specialization, and within interdisciplinary fields related to their particular work. He stated that present problems of engineering research and development make it mandatory that the future engineer receives an education which will enable him to acquire the new techniques and knowledge needed for future engineering developments. Thus engineers of the future will continue to play a significant role in space-related industries, and at the same time actively participate in the development of new ideas and methods.

-more-

Engineers with the broadest and most fundamental backgrounds, he went on, will be the most successful in bridging the gap between scientific development and practical engineering application in the face of the rapid technical and environmental changes, which are here today and which will be occurring in the future at an even more accelerated rate.

A serious pitfall in overspecialization at this time, according to Owens, would be the obsolescence of engineering skill due to the rapid rate of modern day technical changes. Obsolescence most readily affects those who are steeped in detail and who lack the broad conceptual understanding necessary for adaptability, he stated.

The new appraoch, according to Owens, should help to reverse the current trend of decreasing college engineering enrollments. Many young people who, at present, are attracted by the broad scope of the physical sciences would find an engineering program built on a foundation of physical sciences equally as challenging and rewarding, he said.

Illinois Institute of Technology thus becomes one of the select schools in the nation, and the first in the Midwest to offer this broad concept-type engineering program, Owens explained.

-more-

ADD 3 --

The change at IIT will be enthusiastically received by industries seeking qualified engineers, Owens said. Present-day needs are strongly centered about engineers with a maximum adaptability to new ideas and new methods. This program, he stated, will meet those needs, and moreover, will make it possible to produce an engineer with the deepest understanding of the present-day and future aspects of his particular field of specialization.

The majority of industries today, he said, require graduates with this broad background and are prepared to orient the young engineer in terms of particular approaches and techniques. By the same token, Owens added, young people with this type of training are better prepared to continue their professional development through continued education, both formal and informal, thus making them the type of engineers who will be most eligible for advancement to industry's managerial levels.

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For further information on this release, contact:

Bob Finn
CA 5-9600, Ext. 2746

FOR RELEASE:

**IMMEDIATE**

January 8, 1963

CHICAGO, ILL. -- Illinois Institute of Technology's biology department will launch its first tuition-free biology course for high school students Feb. 9.

Some 200 of Chicagoland's best high school juniors and seniors chosen on the basis of their scholastic attainment will attend.

The purpose of the course is to broaden the knowledge of biology of talented students interested in a scientific education, according to Dr. Leslie R. Hedrick, chairman of the IIT biology department.

Students will meet on the IIT campus in two groups on alternate Saturdays for 16 weeks begining Feb. 9 and running from 10 a.m. to noon. The title of the course is "Genes Chromosomes and Evolution". The teacher will be Dr. Richard A. Spieler, assistant professor of biology.

Presentations will center upon concepts in modern evolutionary genetics, including the role played by genes and chromosomes in the process of adaptation and natural selection, the effects of hereditary agents on inherited traits, and examples of current research on species ranging from protozoa to man. A certificate of achievement will be given to students who complete the study.

-more-

ADD. 1

High school juniors and seniors who have had one year of biology, one year of high school algebra and who are in the top fourth of their class are eligible to apply. Applications may be obtained from the biology department of IIT and must be returned by Jan. 18.

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For further information on this release, contact:

Ed Hansen
Ca 5-9600, Ext. 2747

FOR RELEASE:
**IMMEDIATE**

January 11, 1963

CHICAGO, ILL. -- The American Power Conference, sponsored by Illinois Institute of Technology, will celebrate its 25th anniversary at its next meeting to be held on March 26-28, at the Sherman House in Chicago, according to Dr. R. A. Budenholzer, director of the conference.

At the meeting, a program of general interest to the 3000 executives, engineers, educators and government officials attending will include a total of more than 100 papers and addresses covering the generation, transmission, distribution and utilization of power.

A highlight of the conference will be the All Engineers Dinner at which Francis K. McCune, vice president of General Electric Company, will be the principal speaker.

Keynote speakers at the opening meeting will be Logan T. Johnston, president of Armco Steel Corporation and Charles R. Sligh, Jr., vice president of the National Association of Manufactures. Joseph C. Swidler, chairman of the Federal Power Commission and Dr. Frank K. Pittman, director of the division of reactor engineering of the Atomic Energy Commission will be luncheon speakers.

Among sessions of special interest will be those devoted to novel forms of power generation, high voltage, DC transmission and engineering manpower.

-more-

ADD 1 --

All persons interested in the power industry are cordially invited to attend, Budenholzer said. Further information including an advance program and registration forms may be obtained by writing to: Director, American Power Conference, Illinois Institute of Technology, Technology Center, Chicago 16, Illinois.

Technical sessions scheduled for the conference are listed below:

SESSIONS SCHEDULED FOR THE 25th ANNIVERSARY MEETING OF THE AMERICAN POWER CONFERENCE

Mechanical Sessions

Large Steam Generators and Auxiliaries
1,000,000 kw Consolidated Edison Station
The Bull Run Station of TVA
Lake Nasworthy Combined Cycle Station
Central Station Economics and Reserve Power
Mine Mouth Generating Stations and Cooling Towers
Power Plant Cycle Analysis
Hydroelectric Power
Fuels

Electrical Sessions

High Voltage Transmission - AC
High Voltage Transmission - DC
Power System Planning
Automation and Control
Distribution
Measurement and Transducers
Engineering Manpower

Industrial Sessions

Heating and Air Conditioning
Industrial Electrical
Industrial Power Plant Practice
Industrial Plant Problems

-more-

ADD 2 --

Water Technology Sessions

Water Treatment in Industrial Power Plants
Modern Steam Washers
Condensate Polishing

Nuclear Energy Sessions

Nuclear Fuel Development and Economics
Advances in Nuclear Power Plant Reactors
Operating Experience with Nuclear Power Plants

ADVANCE PROGRAM

SILVER ANNIVERSARY MEETING

AMERICAN POWER CONFERENCE

SHERMAN HOUSE

March 26, 27 and 28, 1963

TUESDAY, March 26, 1963

8:30 AM REGISTRATION. Mezzanine Floor -- Sherman House.

10:00 AM - 12:00 Noon. OPENING MEETING.-- Grand Ballroom.

CHAIRMAN: Morgan Murphy, Executive Vice President, Commonwealth Edison Company, Chicago, Ill.

CO-CHAIRMAN: Adolph J. Ackerman, Consulting Engineer and President, Hydroelectric Planners, Madison, Wis.

INVOCATION: The Reverend Rollins E. Lambert, Chaplain, Newman Club, Illinois Institute of Technology and Assistant Chaplain, Calvert House, University of Chicago, Chicago, Ill.

SPEAKER: Logan T. Johnston, President, Armco Steel Corporation, Middletown, Ohio.

SUBJECT: Dialogue of the Deaf -- The Problem of Industry Government Relations.

SPEAKER: Charles R. Sligh, Jr., Vice Chairman of the Board, National Association of Manufacturers, New York, N.Y.

SUBJECT: Fighting for the Future.

12:15 PM JOINT APC - ASME LUNCHEON -- Bernard Shaw Room.
Sponsored by the American Society of Mechanical Engineers.

CHAIRMAN: C. H. Shumaker, President, American Society of Mechanical Engineers.

CO-CHAIRMAN: K. H. Otte, Chairman, Chicago Section, American Society of Mechanical Engineers.

SPEAKER: The Honorable Joseph C. Swidler, Chairman, Federal Power Commission, Washington, D. C.

SUBJECT: The National Power Survey and the Public Interest.

2:00 - 5:00 PM LARGE STEAM GENERATORS AND POWER PLANT CYCLES -- Grand Ballroom.
Sponsored by the Power Division of ASME.

CHAIRMAN: Wayne C. Astley, Director of Research, Philadelphia Electric Company, Philadelphia, Pa.

CO-CHAIRMAN: Carl B. Vance, Assistant Vice President, Power Production, Indianapolis Power and Light Company, Indianapolis, Ind.

a. Universal Pressure Boiler -- Operating and Control Experience. O.W.Durant, Automation and Control Section Manager, Design Engineering Department, Boiler Division and E.M.Griffin, Section Manager, Utility Products, Marketing Department, Boiler Division, The Babcock & Wilcox Company, Barberton,Ohio

b. An Evaluation of Regenerative Air Heater Performance, Including an Appraisal of Testing. Harold E. Bloss, Engineer Performance Group Manager, Air Preheater Company, Wellsville, N. Y.

c. Binary Cycle for Nuclear Power Generation Using Steam and Refrigerant Gases. Nabil el Ramly, Graduate Student and R. A. Budenholzer, Professor of Mechanical Engineering, Illinois Institute of Technology, Chicago, Ill.

2:00 - 5:00 PM EHV TRANSMISSION, A-C -- Louis XVI Room.
Sponsored by the Power Division of IEEE.

CHAIRMAN: H.E.Lokay, Sponsor Engineer, Electric Utility Systems Engineering, Westinghouse Electric Corporation, East Pittsburgh, Pa.

CO-CHAIRMAN: J.J.Carey, Professor of Electrical Engineering, University of Wisconsin, Ann Arbor, Mich.

a. Virginia Electric Power Company 500 kw System. J.K.Dillard, Manager, Electric Utility Systems Engineering, Westinghouse Electric Corporation, East Pittsburgh, Pa. and J.A.Rawls, Manager, Engineering and Construction, Virginia Electric Power Company, Richmond, Va.

b. (To be announced)

c. The Apple Grove 750 kv Project -- Progress Report. C.P.Zimmerman, Chief Engineer and W.S.Price, Electrical Research Engineer, American Electric Power Service Corporation, New York, N Y and J.K.Dillard, Manager, Electric Utility Systems Engineering and D.F.Shankle, Manager, Transmission Section, Electric Utility Systems Engineering, Westinghouse Electric Corporation, East Pittsburgh, Pa.

d. The Challenge of High-Voltage Tower Designs. Joseph R.Arens, Structural Engineer, Sargent & Lundy, Engineers, Chicago, Ill.

e. Significance of EHV Standardization Around the World. Linnel O.Barthold, Manager, EHV, Systems Research Operation and Eugene M. Hunter, Manager, Electric Utility Systems Operation, General Electric Company, Schenectady,NY

2:00 - 5:00 PM INDUSTRIAL I -- Industrial Problems -- Assembly Room

CHAIRMAN: Rolland H. Bradford, Director, Central Region, Ebasco Services,Inc. Chicago, Ill.

CO-CHAIRMAN: B.H.Jennings, Dean, Research Coordination, Northwestern University, Evanston, Ill.

a. Economical Pipe Sizing with and Without a Computer. Fred W.Lupton II, Assistant Mechanical Engineer, Project Design and Computer Applications, Pioneer Service & Engineering Company, Chicago, Ill.

b. Dowtherm and Other Heating Vapors -- Its Use and Application in Temperature Ranges Above the Normal Field of Steam. Melvin L.Jones, Principal Power Engineer, Engineering Department, E.I.DuPont de Nemours & Co., Wilmington, Del.

c. The Economics of Large Snow Melting Systems -- Design Criteria, Operation and Equipment Employed. Kenneth R. Hodges, Chief Engineer, Sears Roebuck & Company, Chicago, Ill.

d. Pipe Supports for Industrial Piping Systems. Stanley Tomala and Walter Barc, Procon, Inc., Chicago, Ill

2:00 - 5:00 PM WATER TECHNOLOGY I -- Crystal Room.

(Program to be announced)

2:00 - 5:00 PM CENTRAL STATIONS I -- The Lake Nasworthy Combined Gas Turbine-Steam Turbine Power Plant. -- Bal Tabarin Room.
Sponsored by the Power Division of ASME

CHAIRMAN: John A.Hutchison, Chief Engineer, West Texas Utilities, Abilene,Tex.

CO-CHAIRMAN: J.N.Landis, Vice President, Bechtel Corporation,San Francisco,Cal.

a. Design Features of the Lake Nasworthy Power Station. John A.Hutchison,Chief Engineer, West Texas Utilities, Abilene,Texas and R.J.Peyton,Supervising Engineer, Power and Industrial Division,Bechtel Corporation,San Francisco, Calif.

b. Selection of the Combined Cycle for the Lake Nasworthy Station. R.W.Foster-Pegg, Senior Engineer, Bechtel Corporation, San Francisco, Calif.

c. The Turbo Generators -- Steam and Gas. Vincent P.Buscemi,Steam Systems Project Engineer, Large Turbine Division, Westinghouse Electric Corporation, South Philadelphia, Pa.

d. The Steam Generator. C.F.Hawley,Chief Mechanical Engineer, Riley Stoker Corporation, Worcester, Mass.

## EVENING GENERAL INTEREST SESSION

8:00 - 10:00 PM NOVEL FORMS OF POWER GENERATION -- Bal Tabarin Room
Sponsored by the American Institute of Chemical Engineers.

CHAIRMAN: Leonard Reiffel, Director of Physics Research, Armour Research Foundation, Chicago, Ill.

CO-CHAIRMAN: Harry M.Betzig, Chairman, Chicago Section, AIChE, The Austin Company, Chicago Heights, Ill.

a. Space Power Systems. G.C.Szego,Senior Member, Technical Staff, Research and Engineering Support Division, Institute for Defense Analyses,Washington,D.C.

b. Coal-Fired MHD - Steam Plants --Present and Future. E.V.Somers,Manager, Energy Conversion Department, Research Laboratories, Westinghouse Electric Corporation, East Pittsburgh, Pa.

c. Progress in Direct Conversion. R.W.Pidd, Direct Conversion Project Manager, General Atomic Division of General Dynamics Corporation, San Diego, Calif.

WEDNESDAY MARCH 27, 1963

9:00 Am - 12:00 Noon CENTRAL STATIONS II -- The Consolidated Edison Single Unit, 1,000,000 kw Station -- Grand Ballroom.
Sponsored by the Power Division of ASME

CHAIRMAN: H.L.Solberg, Associate Dean of Engineering, Purdue University, Lafayette, Ind.

CO-CHAIRMAN: A.C.Stanojev, Gibbs and Hill, Inc., New York, N Y

a. General Design of a 1000 mw Unit for Ravenswood. H.W.Dierman,Chief Mechanical Engineer, F.P.Kuhl, Design Engineer and T.R.Galloway, Structural Engineer, Mechanical Engineering Department, Consolidated Edison Company of New York, Inc., New York, N Y

b. Design of World's First 1000 MW Generating Unit. C.D.Wilson and L.T. Rosenberg, Consulting Engineers, Thermal Power Department, Allis-Chalmers Manufacturing Company, Milwaukee, Wis. and J.M.Driscoll, Turbine Plant Engineer, Consolidated Edison Company, New York, N Y

c. Design Features of the 1000 MW Ravenswood Steam Generating Unit. H.Knecht, Steam Plant Engineer, Mechanical Engineering Department, Consolidated Edison Company, New York, N Y and R.H.Wolin, Vice President and Chief Engineer, Combustion Engineering, Inc., Windsor, Conn.

d. Con Edison 345 kv Transmission for Integration of 1000 MW Units. David V. Buchanan, Planning Engineer, System Engineering Department and Lewis G. McDowell, Assistant Division Engineer, Electrical Engineering Department, Consolidated Edison Company of New York, Inc., New York, N Y

9:00 AM - 12:00 Noon EHV TRANSMISSION, D-C -- Louis XVI Room

CHAIRMAN: W.A.Lewis, Research Professor of Electrical Engineering, Illinois Institute of Technology, Chicago, Ill.

CO-CHAIRMAN: M.S.Helm, Professor of Electrical Engineering, University of Illinois, Urbana, Ill.

a. Some Aspects on Tapping of HV D-C Transmission. Uno Lamm, Eric Ullmann and Per Danfors, A.S.E.A., SWEDEN.

b. Comparison of Alternating Current and Direct Current for Extra-High-Voltage Transmission. H.L.Lowe, Consulting Electrical Engineer, Ebasco Services, Incorporated, New York, N Y

c. Planning Considerations of High Voltage Direct Current Interregional Trans-Mission Lines. George C.Conner, Head,System Planning Section and Ralph S. Gens, High Voltage Engineer, Bonneville Power Administration, Portland, Orego:

d. Further Design of D-C Power Supply for Experimental D-C Transmission Line. Harold Winograd, Consulting Engineer, Lawrence Nickels, Senior Project Engineer, Rectifier Section, both of Control Department and Ronald Hedin, Group Leader, Analog Section, Systems Analysis and Computations Department, Allis-Chalmers Manufacturing Company, Milwaukee, Wis.

e. D-C -- A-C System Study. H.A.Peterson, Chairman, Department of Electrical Engineering and A.G.Phadke, University of Wisconsin, Madison,Wis.

9:00 AM - 12:00 Noon INDUSTRIAL ELECTRICAL -- Assembly Room
Sponsored by the Chicago Section of IEEE.

CHAIRMAN: Amos Turner, Chairman, Industrial Committee, Chicago Section, IEEE, Hoyer, Schlesinger, Turner; Consulting Engineers, Chicago, Ill.

CO-CHAIRMAN: Thomas A. Abbott, Manager, Engineering Administration, American Oil Company, Whiting, Ind.

a. Serving the Industrial Load. R.C.Ericson, Manager of Electrical Engineering, Northern Indiana Public Service Company, Hammond, Ind.

b. Trends in D-C Power Supplies. P.W.Clark, Manager of Systems Engineering, Allis-Chalmers Manufacturing Company, Milwaukee, Wis.

c. Selection and Application of Switching Equipment for Industrial Power Systems G.W.Walsh, Application Engineer, Industrial Power Systems, General Electric Company, Schenectady, N Y. (Illustrated with moving pictures--will not be printed in Proceedings.)

d. What's Happening in On-Site Generation? R.H.Marks, Special Projects Editor, POWER, New York, N Y.

9:00 AM - 12:00 Noon FUELS -- Crystal Room.
Sponsored by the Fuels Division of ASME

CHAIRMAN: C.R.Barthelemy, Vice President in Charge of Engineering, Pioneer Service and Engineering Company, Chicago, Ill.

Co-Chairman: F.J.Ceely, Staff Engineer, Equipment Division, Foster Wheeler Corporation, Livingston, N. J.

a. Carbon Loss from Stokers. Max O.Funk, Manager, American Boiler Manufacturers Association, Newark, N J

b. Pulverizing Lignite in a Pilot-Plant Test Unit. R.C.Ellman, Project Coordinator, J.W.Belfer, General Engineer and L.Dockter, Chemical Engineer, Bureau of Mines, Grand Forks, N.D.

c. Cold End Corrosion on an Oil Fired Boiler. H.R.Sigg, Plant Engineer, Station Operating Department, Philadelphia Electric Company, Philadelphia,Pa.

9:00 AM - 12:00 Noon WATER TECHNOLOGY II -- Bal Tabarin Room

(Program to be announced)

12:15 PM JOINT APC - IEEE LUNCHEON -- Bernard Shaw Room

CHAIRMAN: B.R.Teare,Jr., Vice President, Institute of Electrical and Electronic Engineers and Dean of the College of Engineering and Science, Carnegie Institute of Technology, Pittsburgh, Pa.

CO_CHAIRMAN: J.H.Enenbach, Regional Director, IEEE, Chairman, Chicago Section IEEE and District Marketing Manager, Illinois Bell Telephone Company, Chicago, Ill.

SPEAKER: J.K.Horton,President,Southern California Edison Company,Los Angeles, Calif.and Member of Edison Electric Institute Research Division,ExecutiveCom
SUBJECT: General Subject of Research and Development.

2:00 - 5:00 PM CENTRAL STATIONS III - - The Bull Run Station of TVA -- Grand Ballroom. Jointly Sponsored by the Power Divisions of ASCE and ASME.

Chairman: C.Russell Dole, Dayton Power and Light Company, Dayton, Ohio.

Co-Chairman: Richard N.Bergstrom, Associate, Sargent & Lundy, Engineers, Chicago, Ill.

a. TVA's Bull Run Steam Plant. George P.Palo, Chief Engineer, Walter F. Emmons, Chief Design Engineer and R.M.Gardner, Assistant Chief Design Engineer, Tennessee Valley Authority, Knoxville, Tenn.

b. 900,000 kw Turbine Generator for Bull Run Station of TVA. Carl Schabtach, Manager - Engineering, Large Steam Turbine-Generator Department, General Electric Company, Schenectady, N.Y.

c. Engineering the Bull Run Steam Generating Unit. Wilburt W.Schroedter, Manager, Boiler Design Development, Combustion Engineering, Inc., Windsor, Conn.

2:00 - 5:00 PM SYSTEM PLANNING AND COMPUTERS -- Louis XVI Room.

Chairman: L.B.LeVesconte, Associate, Sargent & Lundy, Engineers, Chicago, Ill. and Chairman, Power Systems Committee, IEEE.

Co-Chairman: E.B.Eggers, Assistant Professor of Electrical Engineering, Illinois Institute of Technology, Chicago, Ill.

a. Progress in Total System Planning -- Generation Transmission and Distribution. R.C.Ender and C.D.Galloway, Applications Engineers, Electric Utility Apparatus Engineering Operation, General Electric Company, Schenectady, N.Y.

b. Planning for Power Pools and EHV Ties. C.J.Baldwin, Manager, Generation Section, Electric Utility Engineering Department, Westinghouse Electric Corporation, East Pittsburgh, Pa.

c. Training Electric Utility Engineers in the Application of Digital Computers. Gordon K.Carter, Senior Application Engineer, Special Studies and Digital Analysis Operations; Charles Concordia, Manager, Systems Research Operation, Electric Utility Analytical Operations and Frank J.Maginniss, Manager, Special Studies and Digital Analysis, Systems Research Operation, General Electric Company, Schenectady, N. Y.

d. Computer Uses in the Next Ten Years. Mark Enns, Generation Engineer, Electric Utiility Systems Engineering Department, Westinghouse Electric Corporation, East Pittsburgh, Pa.

2:00 - 5:00 PM INDUSTRIAL III -- Water Technology III -- Assembly Room.

(Program to be announced)

2:00 - 5:00 PM ENGINEERING MANPOWER -- Crystal Room

CHAIRMAN: L. A. Kilgore, Director of Engineering, East Pittsburgh Division, Westinghouse Electric Corporation, East Pittsburgh, Pa.

CO-CHAIRMAN: L.Dwon, Manager, Engineering Manpower, American Electric Power Service Corporation, New York, N Y

a. Experience with Summer Test Program in Modern Power Plants -- the Company's View. A.S.Grimes, Results Section Head and T.T.Frankenberg, Consulting Mechanical Engineer, American Electric Power Service Corporation,New York,NY.

b. Experience with Summer Test Program in Modern Power Plants --the College's View. Lewis F. Hicks, Associate Professor of Mechanical Engineering, Ohio University, Athens, Ohio and C.Hardy Long, Professor of Mechanical Engineering, Virginia Polytechnic Institute, Blacksburg, Va.

c. The Effect of Changing Curricula on Engineering Manpower for the Power Industry. R.T.Weil,Jr.,Dean of Engineering,Manhattan College,New York,N Y

d. Optimizing Engineering Manpower Utilization Through Reducing Impact of Technical Obsolescence. W.G.Torpey,Executive office of the President, Washington, D. C.

2:00 - 5:00 PM NUCLEAR POWER PLANTS I -- FUELS -- Bal Tabarin Room.

CHAIRMAN: Delbert M. Leppke, Chairman, Chicago Section, American Nuclear Society, Pioneer Service and Engineering Company, Chicago, Ill.

CO-CHAIRMAN: Leonard Link, Associate Director, Nuclear Reactor Division, Argonne National Laboratory, Argonne, Ill.

a. The Economics of Re-Cycled Fuels. M.C.Edlund,Manager, Development Department,Atomic Energy Division,The Babcock & Wilcox Company,Lynchburg,Va.

b. The Impact of Graphite Fuel Devleopment on High Temperature Steam Generation. Gorwin Rickard,Manager of Advanced Planning and Pre-design Studies--HTGR and Robert Meyer,Staff Member, Metallurgy Department,John Jay Hopkins Laboratory for Pure and Applied Science,General Atomic Division of General Dynamics,San Diego, Calif.

d. Long-Term Development of Low Cost Nuclear Heat and Power. Aaron D.Brooks, Technical Expert, Engineering and Construction Department,Midland Division, Dow Chemical Company,Midland,Mich.

c. Integrated Nuclear Power and Fuel Reprocessing Stations. J.K.Davidson,Manager of Planning,Atomic Energy Division,Allis-Chalmers Mfg Co,Milwaukee,Wis.

A L L E N G I N E E R S D I N N E R

6:30 PM -- Grand Ballroom.

PRESIDING: Edwin Vennard, Vice President and General Manager, Edison Electric Institute, New York, N Y

SPEAKER: Francis K. McCune,Vice President,General Electric Company, New York, N Y

SUBJECT: Daring to Excel.

9:00 AM - 12 Noon CENTRAL STATIONS IV -- Mine Mouth Plants and Cooling Towers. Grand Ballroom. Sponsored by the Power Division of ASME.

Chairman: J.G.Miller, Assistant Chief Engineer, Metropolitan Edison Company, Reading, Pa.

Co-Chairman: G.H.Auth, Professor of Mechanical Engineering, Villanova University, Villanova, Pa.

a. The Mount Storm Power Station -- 1,000,000 kw Mine-Mouth Project. J.D.Ristroph, Manager, Power Production, Virginia Electric & Power Company, Richmond, Virginia and L.E.Chadbourne, Senior Mechanical Engineer, Stone & Webster Engineering Corporation, Boston, Mass.

b. Hyperbolic Cooling Towers with Reservoir Storage of Makeup Serve the Keystone Generating Station. Alexander F.Smith III, Assistant to Chief Engineer, Gilbert Associates, Inc., Reading, Pa., and Ralph F. Bovier, Vice President, Pennsylvania Electric Company, Johnstown, Pa.

c. Economics of Closed Versus Open Cooling Water Cycles. F.A.Ritchings, Consulting Mechanical Engineer and A.W.Lotz, Mechanical Engineer, Ebasco Services, Incorporated, New York, N Y

d. Dry Cooling Tower -- New Method for Substantial Reduction in the Water Requirement of Thermal Power Plants. George R. Reti, Project Engineer, The Kuljian Corporation, Engineers & Constructors, Philadelphia, Pa.

9:00 AM - 12:00 Noon AUTOMATION, CONTROL AND OPERATION -- Louis XVI Room. Sponsored by the Power Division of IEEE.

Chairman: C.A.Woodrow, Chairman, Power Division, IEEE, Elec.Util.Eng.Operations. General Electric Company, Schenectady, N.Y.

Co-Chairman: J.E.Van Ness, Professor of Electrical Engineering, Northwestern University, Evanston, Ill.

a. Computer Control System for Efficient Water Utilization on the Niagara Power Project. J.A.Howell and W.B.Schultz, Project Engineers, Systems Engineering, Leeds and Northrup Company, Philadelphia, Pa.

b. On-Line Computer at the Niagara Power Project. L.M.Wolman, Hydraulic Engineer, R.S.Coleman, Electrical Engineer and L.H.Holzman, Computer Engineer, Charles T.Main, Inc.,Boston, Mass.

c. Automation of System Operation. H.J.Fiedler, Application Engineer, System Automation Engineering, Power Systems Engineering Operation and L.K.Kirchmayer, Manager, System Planning and Control, Electric Utility Systems Research Operation, General Electric Company, Schenectady, N.Y.

d. Computer Scheduling of Generation. Ross H.Brudnell, Chief, System Loading Branch, Jack H.Gilbreath,Supervisor, Operation Planning Section and W.A.Dobson, Power Supply Analyst, Tennessee Valley Authority, Chattanooga, Tenn.

e. Computer Applications in Power Stations. J.E.McFarland,Electrical Engineer, Sargent & Lundy, Engineers, Chicago, Ill.

9:00 AM - 12:00 Noon INDUSTRIAL IV -- Power Plants -- Assembly Room.

Chairman: William F.Rice, President, National Association of Power Engineers, General Foods Corporation, Terrytown, N.Y.

Co-Chairman: D.J.Renwick, Associate Professor of Mechanical Engineering, Michigan State University, East Lansing, Mich.

a. The Industrial Power Plant of 1980. Bob McCaw, Editor, POWER ENGINEERING, Technical Publishing Company, Barrington, Ill.

b. Fuel Savings and Air Pollution Control Through Selective Reinjection of Fly Ash -- Test Results and Operating Units. William E.Barkovitz, Senior Engineer and Ben Ragland, Manager, Air Pollution Control Products, American Standard Industrial Division, Detroit, Mich.

c. Comparison of Economy and Performance Estimates with Subsequent Operating Results for a High Pressure Industrial Boiler Installation, William Hayden, Manager of Utilities, Abbott Laboratories, North Chicago, Ill.

9:00 AM - 12:00 Noon NUCLEAR POWER REACTORS -- Bal Tabarin Room.

Chairman: Titus G.Le Clair, Manager, Nuclear Power Applications, General Atomic, San Diego, Calif.

Co-Chairman: Sidney Siegel,Vice President,Atomics International Division,North American Aviation, Inc.,Canoga Park, Calif.

a. Utility System Conditions Favorable to Early Installation of Nuclear Power. K.A.Anderson, Product Planning Engineer, Atomic Power Equipment Department, San Jose, Calif., J.J.Heagerty and W.D.March, Application Engineers, Electric Utility Engineering Operation, Schenectady, N.Y. and W.H.Oberly, Manager, Product Planning and Marketing Research, Atomic Power Equipment Department, all of General Electric Company, San Jose, Calif.

b. World Status and Future of Fast Reactors. L.J.Koch, Deputy Director, Reactor Engineering Division and Project Manager, EBR II, Argonne National Laboratory, Argonne, Ill.

c. The Future of Large Reactors. W.L.Budge, Marketing Manager, Westinghouse Commercial Atomic Power Department and J.C.Rengel, Manager, Advanced Development and Planning, Westinghouse Commercial Atomic Power Department, Pittsburgh, Pa.

d. The Future for Nuclear Superheat and Reheat. R.W.Klecker, Manager of Engineering, C.L.Teeter, Nuclear Engineer and C.B.Graham, Manager, Nuclear Power Department, Allis-Chalmers Manufacturing Company, Greendale, Wis.

12:15 PM JOINT APC - WSE LUNCHEON -- Bernard Shaw Room.

Chairman: Frank Scott, President, Western Society of Engineers

Co-Chairman: Bernard I. Spinrad, Director, Reactor Engineering Division, Argonne National Laboratory, Argonne, Ill.

Speaker: Frank K. Pittman, Director, Division of Reac tor Development, United States Atomic Energy Commission, Washington, D. C.

Subject: The National Civilian Power Program.

2:00 - 5:00 PM CENTRAL STATIONS V -- Economics and Reserve Power -- Grand Ballroom. Sponsored by the Power Division of ASME

Chairman: J.D.Andrew,Jr., The Babcock & Wilcox Company, Barberton, Ohio.

Co-Chairman: Theodore Baumeister, Consulting Engineer, General Public Utilities Corporation and Stevens Professor of Mechanical Engineering, Columbia University, New York, N.Y.

a. A Comparison of the Capital and Energy Costs of Steam Generating Stations with Large Capacity Units. H.J.Petersen, Vice President and Power Consultant, United Engineers & Constructors, Inc., Philadelphia, Pa.

b. Economics of the Selection of 3500 Psig Double Reheat for a 300 MW Unit. R.W.Davies, Senior Engineer and G.C.Creel, Baltimore Gas and Electric Company, Baltimore, Md.

c. (To be announced)

d. The 100,000 kw Reserve Power Unit. G.W.Clark, Project Engineer, Large Steam Turbine Generator Department, General Electric Company, Schenectady, N.Y. and B.J.Yeager, Manager of Electric Production, Cincinnati Gas and Electric Company, Cincinnati, Ohio.

2:00 - 5:00 PM MEASUREMENTS AND TRANSDUCERS -- Louis XVI Room. Sponsored by Power Division IEEE.

Chairman: D.M.Sauter, Electric Utility Engineer, Minneapolis - Honeywell Regulator Company, Pottstown, Pa. AND Chairman,Power Plant Control,Protec. and Automation Subcommittee, Power Generation Committee, IEEE.

Co-Chairman: G.T.Jacobi, Assistant Director, Electronics, Armour Research Foundation, Illinois Institute of Technology, Chicago, Ill.

a. A Method of Evaluating Transducers for Computer Installation. D.E.Cate, R.J.Lukens and D.M.Sauter,Minneapolis Honeywell Regulator Company,Pottstown, Pa.

b. The Application of a Combined Sensor and Computer System for Accurate Monotoring of Plant Jack McDonough.William Stephens,Jr.,Georgia Power Co., Atlanta, Ga and J.C.Westcott,General Electric Company,Schenectady,N Y

c. The Effect of Data Errors on Performance Computing. W.F.Kinney,W.A.Strandberg and N.R.Kurchar,Application Engineers,Bailey Meter Company,Cleveland,O.

d. Digital Telemetering and Remote KWH Reading. J.A.Howells,Project Engineer, and B E Godfrey,Sales Engineer,Leeds and Northrup Company,Philadelphia,Pa.

2:00 - 5:00 PM INDUSTRIAL V -- Heating and Air Conditioning -- Assembly Room. Sponsored by the American Society of Heating,Refrigerating and Air Conditioning Engineers.

CHAIRMAN: Louis Oosten, Vice President, Engineering, Bell & Gossett Company, Morton Grove, Ill.

CO-CHAIRMAN: Edward R. Teske, Chairman, Illinois Chapter, ASHRAE add Executive Secretary, Mechanical Contractors Chicago Association, Chicago, Ill.

a. Economic Evaluation and Operating Performance Study of Gas Turbine Power Plant Installed at Park Plaza Center, Little Rock, Arkansas. Maurey Hughes, Jr.,Vice President, Leo L. Landauer and Associates, Inc.,Consulting Engineers, Dallas, Texas.

b. Economic and Operating Studies on the Application of Turbine Engines to Power Plants and Large Building Projects. P.M.Klauber,Solar Aircraft Company, San Diego,Calif.

c. 750 Hp Air Source Heat Pump. Ross E. Polking Horne, Design Supervisor--Air Conditioning and Patrick R.Dwyer, Supervisor of Heating Sales,The Detroit Edison Company, Detroit, Mich.

2:00 - 5:00 PM ELECTRICAL DISTRIBUTION -- Crystal Room. Sponsored by Chicago Section IEEE.

CHAIRMAN: E.L.Nicolson,Manager,Electric Utility Application Engineering, Central States Region,General Electric Company, Chicago, Ill.

CO-CHAIRMAN: F.J.Kovalcik, Midwestern Editor, ELECTRICAL WORLD, Chicago,Ill.

a. Why Strip Conductor and Why Aluminum? W.J.Novak and W.N.Pahel,Delta-Star Division, H.K.Porter Company, Lynchburg,Va.

b. A New Angle in Substations. Harold Fossum,Chief Electrical Engineer, Pioneer Service and Engineering Company, Chicago, Ill.

(Discussions by L.C.Weber, Northern States Power Company, Minneapolis,Minn. and L.T.Guess, Aluminum Company of America, Pittsburgh, Pa.

c. Parallel Capacitor Switching with Vacuum Switches. (Author to be announced.

d. A New Kind of Distribution Transformer. M.B.Mallott, Manager, Transformer Division, Maloney Electric Company, St. Louis, Mo.

2:00 - 5:00 PM NUCLEAR POWRR PLANTS III - Operating Experience and Performance of Nuclear Power Stations. Sponsored by the Chicago Section of the American Nuclear Society.

CHAIRMAN: Manson Benedict, President,American Nuclear Society and Head,Department of Nuclear Engineering,Massachusetts Institute of Technology,Cambridge, Mass.

CO-CHAIRMAN: Lyman Templin,Chairman,Chicago Section,American Nuclear Society and Assistant Director,Reactor Engineering Division,Argonne National Laboratory, Argonne, Ill.

a. Operating Experience at Hallam Nuclear Power Facility. J.D.Cochran,Plant Superintendent,Sheldon Station,Consumers Public Power District,Hallam,Neb.

b. Operating Experience at Indian Point Station. W.J.Cahill,Head,Nuclear Engineering Division,H.R.Freyberg,General Superintendent,Indian Point Station, Consolidated Edison Company, New York, N Y

c. Initial Approach to Power at Big Rock Point Nuclear Plant. Robert L.Hauter, Nuclear Plant Operations Supervisor and Lee M. Hausler,Plant Superintendent, Big Rock Nuclear Plant, Consumers Power Company, Charlevoix,Mich.

d. Highlights of Operating Experience During Past Year at Yankee Nuclear Plant. L.E.Minnick, Nuclear Engineer,Yankee Atomic Electric Company,Rowe,Mass.

e. Highlights of Operating Experience During Past Year at Dresden Nuclear Power Station. C.B.Zitek,Assistant Superintendent,Dresden Station, Commonwealth Edison Company, Morris, Ill.

## ANS CHICAGO SECTION DINNER

Louis XVI Room. Social Hour 6:00 PM Dinner 6:45 PM

Arranged by the Chicago Section of the American Nuclear Society.

Speaker: Manson Benedict, President, American Nuclear Society.

Subject: Prospects for Central Station Nuclear Power.

Everyone is cordially invited to attend.

Reservations and tickets for the ANS dinner may be purchased for $6.00 at the American Nuclear Society Desk during the conference or may be purchased in advance along with your conference registration. Tickets purchased in advance will be held at the ANS desk for pickup on arrival.

## FIELD TRIP TO ARGONNE NATIONAL LABORATORY

The Chicago Section of the American Nuclear Society is arranging a field trip to Argonne National Laboratory on the morning of Friday, March 29,1963. Tour will leave Sherman House at 8:00 AM and return to the hotel in time for lunch in the early afternoon. Facilities planned to be included are Aero Gradiant Synchrotron, Zero Power Reactor Facilities intended for fast reactor studies, Research Reactor CP-5, and discussion of programs and facilities. Those interested should make reservations by writing to Mr. D.M. Leppke, Pioneer Service and Engineering Company, 400 West Madison Street, Chicago 6, Illinois. Price of the tour will be $4.00. Since only a limited number can be accommodated, early response is requested.

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Institute of Gas Technology

For further information on this release, contact:

Barbara Ilardi
CAlumet 5-9600, Ext. 2748

FOR RELEASE: IMMEDIATE

January 14, 1963

CHICAGO, ILL. -- Joseph E. Halicki, assistant professor of technical drawing at the Illinois Institute of Technology was recently awarded a Faculty Research Fellowship for the spring semester of the 1962-63 academic year.

Halicki, who received a B.S. degree in industrial engineering from IIT, joined the faculty in 1957 as an instructor in the technical drawing department. Under the terms of the fellowship, he will be relieved of three-fourths of his current teaching assignments and given a monthly stipend, allowing to pursue independent studies.

Halicki resides at 3100 S. Michigan Avenue, Chicago.

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For further information on this release, contact:

John Love
VI2-9417

OR RELEASE: IMMEDIATE

January 14, 1963

CHICAGO, ILL. -- On Tuesday, January 15 the Illinois Institute of Technology Techawks will travel to Chicago Teachers College to engage the CTC Colonels at 8 p.m. The Techawks will be looking for their seventh victory in eleven games and their fourth in a row. IIT beat CTC 80-71 at IIT earlier in the season.

The Colonels are winless so far this season with a 0-7 record. In their last game they dropped a close decision to Elmhurst College at Elmhurst. They still have not regained the services of 6'9" center Wayne Molis, who broke an ankle earlier in the year. CTC coach Spin Salario has also lost starters Ron Beavers and Tom Coglianese.

The Techawks appear to have hit their stride after a slow start. In their last game, their third straight win, they gave the University of Chicago one of its worst beatings in years by beating the Maroons 66-46. IIT's Little All-American candidate Dan Benevich scored 17 points as the Maroons suffered their second defeat in eight games.

After the CTC game, the Techawks will take a week break for final exams before starting practice for the St. Ambrose game scheduled for January 30.

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For further information on this release, contact:

Ed Hansen
Ca 5-9600, Ext. 2747

OR RELEASE:

IMMEDIATE

January 17, 1963

CHICAGO, ILL -- Arthur E. Summerfield, who was U.S. Postmaster General under President Eisenhower, will deliver the commencement address at Illinois Institute of Technology graduation ceremonies, to be held January 26th in IIT's new Hermann Hall auditorium.

Summerfield had long been active in Republican politics in his native Michigan and was serving as chairman of the Republican National Committee when Eisenhower nominated him for the cabinet position in January, 1953.

Since leaving the postmaster generalship at the end of the Eisenhower administration, Summerfield has returned to his private business interests in Flint, Mich., where he heads the Summerfield Chevrolet Company, one of the nation's largest automobile distributors. He is also active in a number of other concerns, mostly in Flint.

Summerfield holds a number of honorary degrees, among them: Doctor, Business Administration, Cleary College, Ypsilanti, Mich. 1953; Doctor of Laws, Defiance College, Defiance, Ohio, 1956; and Doctor of Laws, University of Michigan, Ann Arbor, 1957.

Summerfield and his wife, Miriam, have two children and five grandchildren.

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For further information on this release, contact:

Liz Levy
Ca 5-9600, Ext. 2748

OR RELEASE:
IMMEDIATE

January 21, 1963

CHICAGO, ILL. -- The inauguration of an annual scholarship in memory of John J. Schommer, one of America's all-time greats in athletics, was announced jointly by Illinois Institute of Technology and the Illinois Tech Alumni Association.

The award was established to honor the "spirit of academic excellence and sportsmanship always exhibited by Schommer during his lifetime," according to Dr. John T. Rettaliata, president of IIT.

Covering a full year's tuition for an undergraduate, the first John J. Schommer Memorial Scholarship will be awarded this spring to the student whose record of academic achievement and extra-curricular activities comes closest to exemplifying a spirit similar to Schommer's.

John Joseph Schommer completed his undergraduate education at the Armour Institute of Technology in 1912 (former name of IIT). In sports he carried 12 major letters, and was selected as a member of the 1908 U.S. olympic track team. From 1910 to 1942 he was a big 10 football and basketball official.

As a member of the Armour faculty, he became its first director of athletics. At the time of his death in 1960, he was serving on the Illinois Institute of Technology's Board of Trustees.

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For further information on this release, contact:

Bob Finn
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OR RELEASE:

IMMEDIATE

January 22, 1963

CHICAGO, ILL. -- The Rev. Claiborne M. Bell, Presbyterian minister and student counseling specialist from Tulsa, Okla., will assume the pastorate of the Gunsaulus Foundation at Illinois Institute of Technology February 1.

The Rev. Mr. Bell, currently concluding duties as assistant pastor at Southminster Presbyterian church, Tulsa, and counseling at Tulsa University, succeeds the Rev. Mr. Francis T. Sturtevant, who started the first full-time ministry at IIT in 1956.

Inter-denominational in scope, the foundation is named after the Rev. Frank W. Gunsaulus, the preacher whose "million dollar sermon" inspired Philip (cq) Armour to found the Armour Institute of Technology, which later merged with the Lewis Institute to form IIT.

The Rev. Mr. Bell performed his undergraduate studies at the University of Texas and at Yale Divinity school. He received a Master of Theology degree at the university.

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ADD 1 --

Rev. Mr. Sturtevant has accepted the position of university pastor of the Metropolitan Campus Ministry of Greater Chicago, a newly formed inter-denominational foundation which develops and supervises religious programs on various college campuses in the area.

In his seven years with the Foundation, he began or continued such programs as a discussion group called the Sunday Evening Fellowship, inter-denominational Sunday Morning Worship, and various study groups on many aspects of Christianity, for students and for faculty and staff of IIT.

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For further information on this release, contact:
Ed Hansen
CAlumet 5-9600, ext. 2747

OR RELEASE: January 26, 1963
9:00 P.M.

January 24, 1963

CHICAGO, Jan. 26 -- Former Postmaster General Arthur E. Summerfield, in a commencement address delivered here today, stated that, "while we could not make a more serious mistake than to downgrade Russia's educational achievements, there is one great flaw in Soviet education. It is the inability of tyranny to tolerate the truly questioning mind."

Speaking to the graduating class of Illinois Institute of Technology, Summerfield cited the Soviet regime's discouragement of free inquiry beyond the areas of technology and the physical sciences. "This oxthodoxy," he said, "so deep in the Communist educational system, is intolerant of the probing questions of gifted young students. The basic truths are answered for them, by rote, from Marx and Lenin. It is apostasy to doubt. It is dangerous to question. It is impossible to follow the truth."

Citing the fact that the Soviets are turning out more scientific people than we are, Summerfield doubted that "mere numerical comparison is too meaningful." He told the IIT graduates that they had received an education "as excellent as any obtainable in America" and went on to say that "large numbers of our most able youth continue to

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choose science as their vocation. The number studying for masters degrees is steadily going up. The number working for doctorates in engineering is up 25 per cent over just a year ago."

Summerfield, who was Postmaster General in the Eisenhower administration, warned his listeners against complacency. "Let us concede, he said, "that we have serious conceptual problems of our own. Through we are not ordered to accept prefabricated solutions of these problems, as in the Communist society, the results can be comparable if we fail to challenge and to probe."

He warned against "the doctrine of apathy. . .the tyranny of indifference. . .the acceptance of mediocrity. . .the tolerance of demagoguery. . .aquiescence to hypocrisy in our political and civic life."

Urging his young audience to do better than their elders have done, Summerfield warned them that they were inheriting a great many problems from the past. "A case in point," he said, "is our nation's staggering public debt--in my opinion, a shameful legacy to the youth of our land. . .right now it exceeds 300 billion dollars." He stated further that the "torrent of liabilities committed not by you but by us, over future years for your country's forward burdens comes to more than one trillion dollars."

Summerfield conceded that government spending has to be higher than in the past because of population growth, defense costs, and

our burgeoning economy. He warned that increased spending and taxation would lead to a "vast faceless paternalism," and cited the example of ancient Athens as a society which, in Plato's phrase, "died of its own excesses."

He urged the IIT graduates to participate fully in civic and political life, quoting the Athenians to the effect that "we regard the man who holds himself aloof from public affairs as useless."

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For further information on this release, contact:

Liz Levy
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FOR RELEASE:

IMMEDIATE

January 28, 1963

CHICAGO, ILL. -- The Illinois Institute of Technology has received a $10,000 educational grant from the Standard Oil Foundation it was announced today.

John E. Swearingen, president of the Standard Oil Foundation said, in making the presentation, that IIT may use the unrestricted grant for any educational project it selects, except endowment. The grant, he added, was made to IIT as a "leading university noted for its general excellence, its contributions to national life, its significance in training students from the nations of the Free World, and the quality of its graduate education."

In a letter transmitting the Grant to the Institute, Swearingen went on to say: "We hope this grant will assist you in maintaining and improving the educational standards of your institution." Swearingen is also president of Standard Oil Company (Indiana).

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For further information on this release, contact:

John Love
VI 2-9417

FOR RELEASE:
IMMEDIATE

January 28, 1963

CHICAGO, ILL. -- On Wednesday January 30 the Illinois Institute of Technology Techawks leave for Davenport, Iowa to play St. Ambrose College. The Techawks have been idle due to final exams since January 15. The Game is rated a toss-up, with both teams winning at the other's gym last season and both around the .500 mark for the year.

IIT in its last outing, played one of its worst games of the year and dropped a 67-62 decision to Chicago Teachers. Just the game before, the Techawks played their best of the year by smashing the University of Chicago 66-46.

Big Dan Benevich continues to pace the IIT scoring with a 23 point average. The Little All-American candidate also leads the squad in rebounds for the second straight year.

In the St. Ambrose game, the Techawks will be playing without the services of Ray Anderson, 6'3" starting guard, who graduated between semesters. Jack Waeltz, the other 6'3" starting guard, is listed as a doubtful starter.

IIT's next home game is Saturday, February 2 against Wisconsin State from LaCrosse, Wisconsin.

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For further information on this release, contact:

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CA 5-9600, Ext. 2747

FOR RELEASE:
IMMEDIATE

January 29, 1963

CHICAGO, ILL. -- Miss Ella M. Salmonsen, who has served the medical profession for 46 years as a librarian in the medical department of the John Crerar Library, will be the guest of honor at an open house for physicians at the library on Sunday, March 3, 1963, according to Dr. Lowell T. Coggeshall, Vice President of the University of Chicago, chairman of the reception committee.

Other members of the committee of physicians honoring Miss Salmonsen, who lives at 6732 N. Newgard, Chicago, are: Dr. Eric Oldberg, president of the Chicago Board of Health; Dr. Morris Fishbein, Editor, World Medical News; Dr. Paul Hollinger, Chairman, Board of Governors, Institute of Medicine of Chicago; Dr. Theodore R. Van Dellen, Medical Director and Editor of the Chicago Tribune; and Dr. John Talbot, Editor of the Journal of the American Medical Association.

Miss Salmonsen was appointed reference assistant in Crerar's medical department in December, 1916. She became Medical Reference Librarian in 1928, and served as the chief of the library's medical department from that time until Crerar moved into its new building on the campus of the Illinois Institute of Technology in October of last year. Miss Salmonsen is presently serving Crerar as Medical Librarian and Chief Science Librarian in the Research Services Division of the library

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ADD. 1

She has represented the library at numerous meetings of the Medical Library Association, and in 1953 was sent by the library to London as a delegate to the first International Congress on Medical Librarianship, with sponsorship of the Institute of Medicine and the Chicago Medical Society. Miss Salmonsen has been an Honorary Citizen Fellow of the Institute of Medicine of Chicago since 1948.

ADVANCE PROGRAM

SHERMAN HOUSE, CHICAGO
MARCH 26, 27, 28, 1963

25TH ANNUAL MEETING

# AMERICAN POWER CONFERENCE

SPONSORED BY ILLINOIS INSTITUTE OF TECHNOLOGY

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# ILLINOIS INSTITUTE OF TECHNOLOGY

## COOPERATING UNIVERSITIES

Iowa State University
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Purdue University
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University of Michigan
University of Minnesota
University of Wisconsin

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Agricultural and Mechanical College of Texas
Georgia Institute of Technology
Massachusetts Institute of Technology
New York University
Rensselaer Polytechnic Institute

## COOPERATING SOCIETIES

American Institute of Chemical Engineers
American Institute of Mining, Metallurgical and Petroleum Engineers
American Society of Civil Engineers
American Society of Heating, Refrigerating and Air Conditioning Engineers
American Society of Mechanical Engineers
Institute of Electrical and Electronics Engineers
National Association of Power Engineers
Western Society of Engineers
Engineers' Society of Milwaukee

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## *Purpose of the Conference*

The American Power Conference was organized in 1952 as successor to the Midwest Power Conference. It is sponsored by the Illinois Institute of Technology with the cooperation of the universities and technical societies listed above.

The purpose of the Conference is to provide a national forum for the exchange of information concerning problems of interest to the power industry and related fields of activity. In order to best serve this purpose, the Conference endeavors to provide a program consisting of papers of lasting value which tend to emphasize the broad overall aspects of the subject rather than the intricate technical details. All papers and addresses are published in a single cloth-bound volume called the Proceedings of the American Power Conference. A permanent record of each author's contribution is thereby made available to those who register and to all others who may later purchase copies of the volume.

Papers presented at the Conference are by invitation. They are selected by committees composed of experts in the various fields of activity, chosen from the cooperating universities and societies, and from industry and government. Suggestions for papers are always welcome and will be given careful consideration if received on or before September 1 of the year immediately preceding the Conference.

The American Power Conference is open to all persons interested in the generation, transmission, distribution, or utilization of power irrespective of society affiliations. It provides a common meeting ground for all those engaged in the industry's many and varied activities. Academic sponsorship permits the freest possible discussion, ranging from the technical through the economic and into the social aspects of the subject.

A cordial invitation is extended to everyone to attend this Silver Anniversary meeting of the American Power Conference.

## REGISTRATION IN ADVANCE BY MAIL

All those who can do so are urged to register in advance by mail before Wednesday, March 20. This may be done by filling out the registration form appearing on page 21 and returning it together with your remittance to:

**Edwin R. Whitehead, Secretary, American Power Conference**
**Illinois Institute of Technology, Technology Center**
**Chicago 16, Illinois**

Upon arrival at the Conference, badges and tickets ordered in advance may be picked up at a special registration desk reserved for advance registrants.

## EARLY REGISTRATION AT THE CONFERENCE

For the convenience of those arriving early, a special registration desk will be set up in the lobby of the Sherman House on Monday evening, March 25. Those who can are urged to register at this time in order to avoid the early Tuesday morning rush.

## REGISTRATION DURING THE CONFERENCE

Registration during the Conference will begin on the Mezzanine Floor of the Sherman House at 8:30 Tuesday, March 26 and continue throughout the three-day period. Everyone planning to attend the technical sessions is required to register. Those who plan to attend only the luncheon or dinner functions are not required to register although they are urged to do so in order to obtain a copy of the Proceedings and to provide support for the Conference.

A registration fee of $20.00 will be charged each registrant. This fee entitles the registrant to receive, without further charge, a cloth-bound copy of the Proceedings containing all of the papers and addresses presented at the conference. Also included will be a cloth-bound 25-year index volume matching the other volumes of the Proceedings. Both of these volumes will be mailed to the registrant as soon as they become available from the printer. Each registrant also receives an identification badge which will serve as his ticket of admission to all sessions of the conference.

## HOTEL ACCOMMODATIONS

All sessions of the Conference will be held in the Sherman House located in the Loop on the corner of Randolph and Clark streets in Chicago. Those who plan to attend and are in need of hotel accommodations are urged to make reservations directly with the Sherman House or with any other desired hotel at an early date. For your convenience a reservation card for the Sherman House appears on page 21.

## PUBLISHED PROCEEDINGS

Each year papers and addresses delivered at the Conference are published in a cloth-bound volume called "The Proceedings of the American Power Conference." As mentioned above, a copy of this volume will be mailed without further charge to each registrant. Additional copies may be ordered at the registration desk or by mail. The price of the volume will be $10.00 per copy. Additional copies of the 25-year index volume may also be ordered for $5.00 per copy.

## PRINTED PAPERS

As a further service to registrants, the Conference will have available for sale at the meeting copies of most of the papers scheduled for presentation. These copies will be furnished to the Conference through the courtesy of the authors. A charge of 25c will be made for each paper to cover the cost of handling and to help defray some of the expenses of printing the proceedings. Those desiring copies of papers should purchase them at the meeting since few preprints will be available after the conference.

## FINAL PROGRAM

The advance program is tentative. Copies of the final program incorporating necessary changes will be available at the registration desk during the meeting. Advance copies of this program will not be mailed. Although it is expected that only minor changes in the advance program will be necessary, there may nevertheless be a few additions and deletions. Each registrant is therefore urged to secure a copy of the final program at the registration desk upon arrival at the meeting.

# ADVANCE PROGRAM

## *1963 Silver Anniversary Meeting*

## AMERICAN POWER CONFERENCE

SHERMAN HOUSE

MARCH 26, 27 and 28, 1963

## TUESDAY, MARCH 26, 1963

**8:30 A.M. REGISTRATION — *Mezzanine Floor — Sherman House.***

**10:00 A.M.-12:00 Noon. OPENING MEETING—*Grand Ballroom.***

CHAIRMAN: Morgan Murphy, Executive Vice President, Commonwealth Edison Company, Chicago, Ill.

CO-CHAIRMAN: Adolph J. Ackerman, Consulting Engineer and President, Hydroelectric Planners, Madison, Wis.

Invocation: The Reverend Rollins E. Lambert, Chaplain, Newman Club, Illinois Institute of Technology and Assistant Chaplain, Calvert House, University of Chicago, Chicago, Ill.

Speaker: Logan T. Johnston, President, Armco Steel Corporation, Middletown, Ohio.

Subject: Dialogue of the Deaf—The Problem of Industry Government Relations.

Speaker: Charles R. Sligh, Jr., Vice Chairman of the Board, National Association of Manufacturers, New York, N. Y.

Subject: Fighting for the Future.

**12:15 P.M. JOINT APC-ASME LUNCHEON—*Bernard Shaw Room.*** Sponsored by the American Society of Mechanical Engineers.

CHAIRMAN: C. H. Shumaker, President, American Society of Mechanical Engineers.

CO-CHAIRMAN: K. H. Otte, Chairman, Chicago Section, American Society of Mechanical Engineers.

Introduction of speaker: J. Harris Ward, Chairman and President, Commonwealth Edison Company, Chicago, Ill.

Speaker: The Honorable Joseph C. Swidler, Chairman, Federal Power Commission, Washington, D. C.

Subject: The National Power Survey and the Public Interest.

**2:00-5:00 P.M. CENTRAL STATIONS I—The Lake Nasworthy Combined Gas Turbine-Steam Turbine Power Plant—*Grand Ballroom.*** Sponsored by the Power Division of ASME.

CHAIRMAN: J. A. Hutchison, Chief Engineer, West Texas Utilities, Abilene, Tex.

CO-CHAIRMAN: J. N. Landis, Vice President, Bechtel Corporation, San Francisco, Calif.

a. The Lake Nasworthy Combined Cycle Power Station. J. A. Hutchison, Chief Engineer, West Texas Utilities Company, Abilene, Tex. and R. J. Peyton, Project Engineer, Power and Industrial Division, Bechtel Corporation, San Francisca, Calif.

b. Selection of the Combined Cycle for the Lake Nasworthy Station. R. W. Foster-Pegg, Senior Engineer, Bechtel Corporation, San Francisco, Calif.

c. The Steam and Gas Turbo Generators. Vincent P. Buscemi, Steam Systems Project Engineer, Large Turbine Division, Westinghouse Electric Corporation, Lester, Pa.

d. The Steam Generatar. C. F. Howley, Chief Mechanical Engineer, Riley Stoker Corporation, Worcester, Mass.

**2:00-5:00 P.M. LARGE STEAM GENERATORS, AUXILIARIES AND POWER PLANT CYCLES—*Bal Tabarin Room.*** Sponsored by the Power Division of ASME.

CHAIRMAN: Wayne C. Astley, Director of Research, Philadelphio Electric Company, Philadelphia, Pa.

CO-CHAIRMAN: Carl B. Vance, Assistant Vice President, Power

Production, Indianapolis Power and Light Company, Indianapolis, Ind.

a. Universal Pressure Boiler—Operating and Control Experience. O. W. Durant, Automotion and Control Section Manager, Design Engineering Department, Boiler Division and E. M. Griffin, Section Manager, Utility Products, Marketing Department, Boiler Division, The Babcock & Wilcox Company, Barberton, Ohio.
b. An Evaluation of Regenerative Air Heater Performance, Including an Appraisal of Testing. Harold E. Blass, Engineer Performance Group Manager, Air Preheater Company, Wellsville, N. Y.
c. Binary Cycle for Nuclear Power Generation Using Steam and Refrigerant Gases. Nabil el-Ramly, Graduate Student and R. A. Budenholzer, Professor of Mechanical Engineering, Illinois Institute of Technology, Chicago, Ill.

**2:00-5:00 P.M. ELECTRICAL I—EHV Transmission, A-C—*Louis XVI Room.*** Sponsored by the Power Division of IEEE.

CHAIRMAN: H. E. Lokay, Sponsor Engineer, Electric Utility Systems Engineering, Westinghouse Electric Corporation, East Pittsburgh, Pa.

CO-CHAIRMAN: J. J. Carey, Professor of Electrical Engineering, University of Wisconsin, Ann Arbor, Mich.

a. Virginia Electric Power Company 500 kw System. J. K. Dillard, Manager, Electric Utility Systems Engineering, Westinghouse Electric Corporation, East Pittsburgh, Pa. and J. A. Rowls, Manager, Engineering and Construction, Virginia Electric Power Company, Richmond, Va.
b. The Apple Grove 750 kv Project—Progress Report. C. P. Zimmerman, Chief Engineer and W. S. Price, Electrical Research Engineer, American Electric Power Service Corporation, New York, N. Y. and J. K. Dillard, Manager, Electric Utility Systems Engineering and D. F. Shankle, Manager, Transmission Section, Electric Utility Systems Engineering, Westinghouse Electric Corporation, East Pittsburgh, Pa.
c. The Challenge of High-Voltage Tower Designs, Joseph R. Areno, Structural Engineer, Sargent & Lundy, Engineers, Chicago, Ill.
d. Significance of EHV Standardization Around the World. Lionel O. Barthold, Manager, EHV, Systems Research Operation and Eugene M. Hunter, Manager, Electric Utility Systems Operation, General Electric Company, Schenectady, N. Y.

**2:00-5:00 P.M. INDUSTRIAL I—Industrial Problems—*Assembly Room.***

CHAIRMAN: Rolland H. Bradford, Director, Central Region, Ebasco Services, Inc., Chicago, Ill.

CO-CHAIRMAN: B. H. Jennings, Dean, Research Coordination, Northwestern University, Evanston, Ill.

a. Economical Pipe Sizing with and without a Computer. Fred W. Luptan II, Assistant Mechanical Engineer, Project Design and Computer Applications, Pioneer Service & Engineering Company, Chicago, Ill.
b. Dowtherm and other Heating Vapors—Their Use and Application in Temperature Ranges Above the Normal Field of Steam. Melvin L. Jones, Principal Power Engineer, Engineering Department, E. I. DuPont de Nemours & Co., Wilmington, Del.
c. The Economics of Large Snow Melting Systems—Design Criteria, Operation and Equipment Employed. Kenneth R. Hodges, Chief Engineer, Sears Roebuck & Company, Chicago, Ill.
d. Pipe Supports for Industrial Piping Systems. Stanley Tomolo and Walter Borc, Procon, Inc., Chicago, Ill.

**2:00-5:00 P.M. WATER TECHNOLOGY I—Steam Purity Control—*Crystal Room.***

CHAIRMAN: M. D. Baker, Chief Chemist, West Penn Power

Company, Springdale, Pa.
CO-CHAIRMAN: R. Clay Porter, Professor of Mechanical Engineering, University of Michigan, Ann Arbor, Mich.
a. The Theory and Application of Steam Washing. E. E. Coulter, Babcock & Wilcox Company, Alliance, Ohio.
b. Five Year's Operational Performance of Steam Washers in Industrial Boilers. L. G. Friedle, Power Department, Dow Chemical Company, Midland, Michigan.
c. Steam Washing Increases Boiler Capability. T. R. Day, Jr., Diamond Alkali Company, Painsville, Ohio.

**EVENING GENERAL INTEREST SESSION**

**8:00-10:00 P.M. NOVEL FORMS OF POWER GENERATION—*Bal Taborin Room.*** Sponsored by the American Institute of Chemical Engineers.
CHAIRMAN: Leonard Reiffel, Director of Physics Research, Armour Research Foundation, Chicago, Ill.
CO-CHAIRMAN: Harry M. Betzig, Chairman, Chicago Section, AIChE, The Austin Company, Chicago Heights, Ill.
a. Space Power Systems. G. C. Szego, Senior Member, Technical Staff, Research and Engineering Support Division, Institute for Defense Analyses, Washington, D. C.
b. Coal-Fired MHD-Steam Plants—Present and Future. E. V. Somers, Manager, Energy Conversion Department, Research Laboratories, Westinghouse Electric Corporation, East Pittsburgh, Pa.
c. Progress in Direct Conversion. R. W. Pidd, Direct Conversion Project Manager, General Atomic Division of General Dynamics Corporation, San Diego, Calif.

# WEDNESDAY, MARCH 27, 1963

**9:00 A.M.-12:00 Noon. CENTRAL STATIONS II—The Consolidated Edison—Single Unit, 1,000,000 kw Station—*Grand Ballroom.*** Sponsored by the Power Division of ASME.
CHAIRMAN: H. L. SOLBERG, Associate Dean of Engineering, Purdue University, Lafayette, Ind.
CO-CHAIRMAN: A. C. Stanojev, Vice President and Director of Power Projects, Commonwealth Associates, Inc., Jackson, Mich.
a. General Design of a 1000 MW Unit for Ravenswood. H. W. Dierman, Chief Mechanical Engineer, F. P. Kuhl, Design Engineer and T. R. Galloway, Structural Engineer, Mechanical Engineering Department, Consolidated Edison Company of New York, Inc., New York, N. Y.
b. Design of 1000 MW Steam Turbine—Generator Unit for Ravenswood No. 3. J. M. Driscoll, Turbine Plant Engineer, Consolidated Edison Company, New York, N. Y.; C. D. Wilson, Turbine Consulting Engineer and L. T. Rosenberg, Generator Consulting Engineer, Allis-Chalmers Manufacturing Company, West Allis, Wis.
c. Design Features of the 1000 MW Ravenswood Steam Generating Unit. H. Knecht, Steam Plant Engineer, Mechanical Engineering Department, Consolidated Edison Company, New York, N. Y. and R. H. Wolin, Vice President and Chief Engineer, Combustion Engineering, Inc., Windsor, Conn.
d. Can Edison 345 KV Transmission for Integration of 1000 MW Units. David V. Buchanan, Planning Engineer, System Engineering Department and Lewis G. McDowell, Assistant Division Engineer, Electrical Engineering Department, Consolidated Edison Company of New York, Inc., New York, N. Y.

**9:00 A.M.-12:00 Noon. ELECTRICAL II—EHV Transmission, D-C—*Louis XVI Room.***
CHAIRMAN: W. A. Lewis, Research Professor of Electrical Engineering, Illinois Institute of Technology, Chicago, Ill.
CO-CHAIRMAN: M. S. Helm, Professor of Electrical Engineering, University of Illinois, Urbana, Ill.
a. Some Aspects on Tapping of HV D-C Transmission. Una

Lamm, Eric Ullmann and Per Danfors, A.S.E.A., Sweden.

b. Comparisan af Alternating Current and Direct Current far Extra-High-Valtage Transmissian. H. L. Lawe, Cansulting Electrical Engineer, Ebasca Services, Incarparated, New Yark, N. Y.

c. Planning Cansideratians af High Valtage Direct Current Interregianal Transmissian Lines. Gearge C. Canner, Head, System Planning Sectian and Ralph S. Gens, High Valtage Engineer, Banneville Pawer Administratian, Partland, Oregan.

d. Experimental D-C Transmissian Test Facility D-C Pawer Supply. A. E. Kilgaur, Systems Engineer, Electrical Transmissian and Distributian Divisian, Allis-Chalmers, Manufacturing Campany, Milwaukee, Wis.

e. Preliminary Study af Parallel A-C—D-C Pawer Transmissian Lines. D. K. Reitan, Prafessar af Electrical Engineering and Arun Phadke, Graduate Student, University af Wiscansin, Madisan, Wis. and R. A. Hedin, Graup Leader, Analag Sectian, Systems Analysis and Camputatian Department, Allis-Chalmers Manufacturing Campany, Milwaukee, Wis.

**9:00 A.M.-12:00 Noon. INDUSTRIAL II, ELECTRICAL III—Industriol Electrical—*Assembly Room.*** Spansared by the Chicaga Sectian af IEEE.

CHAIRMAN: Amas Turner, Chairman, Industrial Cammittee, Chicaga Sectian, IEEE, Hayer, Schlesinger, Turner; Cansulting Engineers, Chicaga, Ill.

CO-CHAIRMAN: Thamas A. Abbatt, Manager, Engineering Administratian, American Oil Campany, Whiting, Ind.

a. Serving the Industrial Laad. R. C. Ericsan, Manager af Electrical Engineering, Narthern Indiana Public Service Campany, Hammand, Ind.

b. Trends in D-C Pawer Supplies. P. W. Clark, Manager af Systems Engineering, Allis-Chalmers Manufacturing Campany, Milwaukee, Wis.

c. Selectian and Applicatian af Switching Equipment far Industrial Pawer Systems. G. W. Walsh, Applicatian Engineer, Industrial Pawer Systems, General Electric Campany. Schenectady, N. Y. (Illustrated with maving pictures—will nat be printed in Praceedings.)

d. What's Happening in On-Site Generatian? R. H. Marks, Special Projects Editar, POWER, New Yark, N. Y.

**9:00 A.M.-12:00 Noon. FUELS—*Crystal Room.*** Spansared by the Fuels Divisian af ASME.

CHAIRMAN: C. R. Barthelemy, Vice President in Charge af Engineering, Pianeer Service and Engineering Campany, Chicaga, Ill.

CO-CHAIRMAN: F. J. Ceely, Staff Engineer, Equipment Divisian, Faster Wheeler Carparatian, Livingstan, N. J.

a. Carban Lass fram Stakers. Max O. Funk, Manager, American Bailer Manufacturers Assaciatian, Newark, N. J.

b. Pulverizing Lignite in a Pilat-Plant Test Unit. R. C. Ellman, Project Caardinatar, J. W. Belter, General Engineer and L. Dackter, Chemical Engineer, Bureau af Mines, Grand Farks, N. Dak.

c. Cald End Carrasian an an Oil Fired Bailer. H. R. Sieg, Plant Engineer, Statian Operating Department, Philadelphia Electric Campany, Philadelphia, Pa.

**9:00 A.M.-12:00 Noon. WATER TECHNOLOGY II—Condensate Purity Control—*Bal Taborin Room.***

CHAIRMAN: S. F. Whirl, Chemical Operating Engineer, Duquesne Light Campany, Pittsburgh, Pa.

CO-CHAIRMAN: W. R. Haman, Chief Chemist, Cammanwealth Edisan Campany, Chicaga, Ill.

a. Operating Experience On Oxygen Removal by Ian Exchange in a Large Pawer Plant Polisher Unit. Piera Sturla, Chief Chemical Engineer, Edisanvalta S.P.A., Milana, Italy.

b. Operating Experiences with High Flaw Rate Palishing af

Condensate. H. W. Frazer and J. M. Young, Infilco, Inc., Tucson, Arizona.

c. Industrial Ion Exchange Applications to Process Condensates. L. F. Wirth, Jr. and F. N. Kemmer, Nalco Chemical Company, Chicago, Ill.

d. Progress Report on Powdex—Bayshore Station, Toledo Edison Company. Eugene C. Novak and James S. Grant, Toledo Edison Company, Toledo, Ohio and Joseph Levendusky, Graver Water Conditioning Company, New York, N. Y.

**12:15 P.M. JOINT APC-IEEE LUNCHEON—*Bernard Shaw Room.***

CHAIRMAN: B. R. Teare, Jr., Vice President, Institute of Electrical and Electronics Engineers and Dean of the College of Engineering and Science, Carnegie Institute of Technology, Pittsburgh, Pa.

CO-CHAIRMAN: J. H. Enenbach, Regional Director, IEEE, Chairman, Chicago Section IEEE and District Marketing Manager, Illinois Bell Telephone Company, Chicago, Ill.

Speaker: J. K. Hartan, President, Southern California Edison Company, Los Angeles, Calif. and Member, Edison Electric Institute Research Division Executive Committee.

Subject: Research and the Electric Utility Industry.

**2:00-5:00 P.M. CENTRAL STATIONS III—The Bull Run Station of TVA—*Grand Ballroom.*** Jointly sponsored by the Power Divisions of ASCE and ASME.

CHAIRMAN: C. Russell Dale, Dayton Power and Light Company, Dayton, Ohio.

CO-CHAIRMAN: Richard N. Bergstrom, Associate, Sargent & Lundy, Engineers, Chicago, Ill.

a. TVA's Bull Run Steam Plant. George P. Polo, Chief Engineer, Walter F. Emmons, Chief Design Engineer and R. M. Gardner, Assistant Chief Design Engineer, Tennessee Valley Authority, Knoxville, Tenn.

b. 900,000 kw Turbine Generator for Bull Run Station of TVA. Carl Schobtach, Manager—Engineering, Large Steam Turbine-Generator Department, General Electric Company, Schenectady, N. Y.

c. Engineering the Bull Run Steam Generating Unit. Wilburt W. Schraedter, Manager, Boiler Design Development, Combustion Engineering, Inc., Windsor, Conn.

**2:00-5:00 P.M. ELECTRICAL IV—System Planning and Computers—*Louis XVI Room.***

CHAIRMAN: L. B. LeVesconte, Associate, Sargent & Lundy, Engineers, Chicago, Ill. and Chairman, Power Systems Committee, IEEE.

CO-CHAIRMAN: E. B. Eggers, Assistant Professor of Electrical Engineering, Illinois Institute of Technology, Chicago, Ill.

a. Progress in Total System Planning—Generation, Transmission and Distribution. R. C. Ender and C. D. Galloway, Application Engineers, Electric Utility Apparatus Engineering Operation, General Electric Company, Schenectady, N. Y.

b. Planning for Power Pools and EHV Ties. C. J. Baldwin, Manager, Generation Section, Electric Utility Engineering Department, Westinghouse Electric Corporation, East Pittsburgh, Pa.

c. Training Electric Utility Engineers in the Application of Digital Computers. Gordon K. Carter, Senior Application Engineer, Special Studies and Digital Analysis Operations; Charles Concordia, Manager, Systems Research Operation, Electric Utility Analytical Operations and Frank J. Maginniss, Manager, Special Studies and Digital Analysis, Systems Research Operation, General Electric Company, Schenectady, N. Y.

d. Computer Uses in the Next Ten Years. Mark Enns, Generation Engineer, Electric Utility Systems Engineering Depart-

ment, Westinghouse Electric Corporation, East Pittsburgh, Pa.

**2:00-5:00 P.M. INDUSTRIAL III—WATER TECHNOLOGY III—*Assembly Room.***

CHAIRMAN: R. A. Lorenzini, Chairman, ASME Research Committee, Boiler Feedwater Studies and Manager, Power Products Division, Foster Wheeler Corporation, Livingston, New Jersey.
CO-CHAIRMAN: Alfred W. Joensen, Instructor, Department of Mechanical Engineering, Iowa State University, Ames, Iowa.

a. Controlling Turbine Deposits with Sodium Sulfite. T. A. McConomy, Hall Laboratories, Division of Hagan Chemicals and Controls, Pittsburgh, Pa.
b. Water conservation in Industry through Use of Cooling Towers. Bryon Berg and T. E. Larson, State Water Survey Division, State of Illinois, Urbana, Illinois.
c. The Role of Water Treatment in the Economic Operation of Industrial Cooling Towers. R. W. Lane and T. E. Larson, State Water Survey Division, State of Illinois, Urbana, Illinois.

**2:00-5:00 P.M. ENGINEERING MANPOWER—*Crystal Room.***

CHAIRMAN: L. A. Kilgore, Director of Engineering, East Pittsburgh Division, Westinghouse Electric Corporation, East Pittsburgh, Pa.
CO-CHAIRMAN: L. Dwon, Manager, Engineering Manpower, American Electric Power Service Corporation, New York, N. Y.

a. Experience with Summer Test Program in Modern Power Plants—the Company's View. A. S. Grimes, Results Section Head and T. T. Frankenberg, Consulting Mechanical Engineer, American Electric Power Service Corporation, New York, N. Y.
b. Experience with Summer Test Program in Modern Power Plants—the College's View. Lewis F. Hicks, Associate Professor of Mechanical Engineering, Ohio University, Athens, Ohio and C. Hardy Long, Professor of Mechanical Engineering, Virginia Polytechnic Institute, Blacksburg, Va.
c. The Effect of Changing Curricula on Engineering Manpower for the Power Industry. R. T. Weil, Jr., Dean of Engineering, Manhattan College, New York, N. Y.
d. Optimizing Engineering Manpower Utilization Through Reducing Impact of Technical Obsolescence. W. G. Torpey, Executive Office of the President, Washington, D. C.

**2:00-5:00 P.M. NUCLEAR POWER PLANTS I—Fuels—*Bal Tabarin Room.***

CHAIRMAN: Delbert M. Leppke, Chairman, Chicago Section, American Nuclear Society, Pioneer Service and Engineering Company, Chicago, Ill.
CO-CHAIRMAN: Leonard Link, Associate Director, Nuclear Reactor Division, Argonne National Laboratory, Argonne, Ill.

a. The Economics of Re-Cycled Fuels. M. C. Edlund, Manager, Development Department, Atomic Energy Division, The Babcock & Wilcox Company, Lynchburg, Va.
b. The Impact of Graphite Fuel Development on High Temperature Steam Generation. Corwin Rickard, Manager of Advanced Planning and Pre-design Studies—HTGR and Robert Meyer, Staff Member, Metallurgy Department, John Jay Hopkins Laboratory for Pure and Applied Science, General Atomic Division of General Dynamics Corporation, San Diego, Calif.
c. Integrated Nuclear Power and Fuel Reprocessing Stations. J. K. Davidson, Manager of Planning, Atomic Energy Division, Allis-Chalmers Manufacturing Company, Milwaukee, Wis.
d. Long-Term Development of Low Cost Nuclear Heat and Power. Aaron D. Brooks, Technical Expert, Engineering and Construction Department, Midland Division, Dow Chemical Company, Midland, Mich.

## WEDNESDAY PM—THURSDAY AM

**ALL ENGINEERS DINNER**

**6:30 P.M.—*Grand Ballroom.***

Presiding: Edwin Vennard, Vice President and General Manager, Edison Electric Institute, New York, N. Y.

Speaker: Francis K. McCune, Vice President, General Electric Company, New York, N. Y.

Subject: Daring to Excel.

# THURSDAY, MARCH 28, 1963

**9:00 A.M.-12 Noon. CENTRAL STATIONS IV—Mine Mouth Plants and Cooling Towers—*Grand Ballroom.*** Sponsored by the Power Division of ASME.

CHAIRMAN: J. G. Miller, Assistant Chief Engineer, Metropolitan Edison Company, Reading, Pa.

CO-CHAIRMAN: G. H. Auth, Professor of Mechanical Engineering, Villanova University, Villanova, Pa.

a. The Mount Storm Power Station—1,000,000 kw Mine-Mouth Project. J. D. Ristroph, Manager, Power Production, Virginia Electric & Power Company, Richmond, Virginia and L. E. Chadbourne, Senior Mechanical Engineer, Stone & Webster Engineering Corporation, Boston, Mass.

b. Hyperbolic Cooling Towers with Reservoir Storage of Make-up Serve the Keystone Generating Station. Alexander F. Smith III, Assistant to Chief Engineer, Gilbert Associates, Inc., Reading, Pa., and Ralph F. Bovier, Vice President, Pennsylvania Electric Company, Johnstown, Pa.

c. Economics of Closed versus Open Cooling Water Cycles. F. A. Ritchings, Consulting Mechanical Engineer and A. W. Lotz, Mechanical Engineer, Ebasco Services, Incorporated, New York, N. Y.

d. Dry Cooling Tower—New Method for Substantial Reduction in the Water Requirement of Thermal Power Plants. George R. Reti, Project Engineer, The Kuljian Corporation, Engineers & Constructors, Philadelphia, Pa.

**9:00 A.M.-12:00 Noon. ELECTRICAL V—Automation, Control and Operation—*Louis XVI Room.*** Sponsored by the Power Division of IEEE.

CHAIRMAN: C. A. Woodrow, Electric Utility Engineering Operations, General Electric Company, Schenectady, N. Y. and Chairman, Power Division, IEEE.

CO-CHAIRMAN: J. E. Van Ness, Professor of Electrical Engineering, Northwestern University, Evanston, Ill.

a. Computer Control System for Efficient Water Utilization on the Niagara Power Project. J. A. Howell and W. B. Schultz, Project Engineers, Systems Engineering, Leeds and Northrup Company, Philadelphia, Pa. (Companion to paper b.)

b. On-Line Computer at the Niagara Power Project. L. M. Wolman, Hydraulic Engineer, R. S. Coleman, Electrical Engineer and L. H. Holzman, Computer Engineer, Charles T. Main, Inc., Boston, Mass. (Companion to paper a.)

c. Automation of System Operation. H. J. Fiedler, Application Engineer, System Automation Engineering, Power Systems Engineering Operation and L. K. Kirchmayer, Manager, System Planning and Control, Electric Utility Systems Research Operation, General Electric Company, Schenectady, N. Y.

d. Computer Scheduling of Generation. Ross H. Brudnell, Chief, System Loading Branch, Jack H. Gilbreath, Supervisor, Operation Planning Section and William A. Dobson, Power Supply Analyst, Tennessee Valley Authority, Chattanooga, Tenn.

e. Computer Applications in Power Stations. J. E. McFarland, Electrical Engineer, Sargent & Lundy, Engineers, Chicago, Ill.

**9:00 A.M.-12:00 Noon. INDUSTRIAL IV—Power Plants—*Assembly Room.*** Sponsored by NAPE.

CHAIRMAN: William F. Rice, President, National Association

of Power Engineers, General Foods Corparation, Terrytown, N. Y.

CO-CHAIRMAN: D. J. Renwick, Associate Professor of Mechanical Engineering, Michigan Stote University, Eost Lansing, Mich.

a. The Industrial Power Plont of 1980. Bab McCow, Editor, POWER ENGINEERING, Technical Publishing Company, Barrington, Ill.

b. Fuel Savings and Air Pollution Cantrol Through Selective Reinjection of Fly Ash—Test Results and Operating Units. William E. Barkovitz, Senior Engineer and Ben Ragland, Manager, Air Pollutian Control Products, American Standard Industrial Division, Detroit, Mich.

c. Comparison of Economy and Performonce Estimotes with Subsequent Operating Results for a High Pressure Industrial Boiler Installation. Williom Hoyden, Monager af Utilities, Abbatt Laboratories, North Chicaga, Ill.

d. Gas Turbines for Standby Power Generatian. Robert A. Podgett, Chief Project Engineer, Turbine Applicotions Department, Solar, a Subsidiary of Internatianal Horvester Company, San Diego, Colif.

**9:00 A.M.-12:00 Noon. NUCLEAR POWER PLANTS II—Reactors—*Bal Tabarin Room.***

CHAIRMAN: Titus G. Le Clair, Monager, Nuclear Power Applications, General Atomic, San Diego, Colif.

CO-CHAIRMAN: Sidney Siegel, Vice President, Atomics Internationol Divisian, Narth American Aviotion, Inc., Canoga Park, Calif.

a. Utility System Conditions Favoroble to Early Installation of Nuclear Power. K. A. Anderson, Product Planning Engineer, Atomic Power Equipment Deportment, San Jose, Calif., J. J. Heagerty and W. D. March, Application Engineers, Electric Utility Engineering Operotion, Schenectady, N. Y. ond W. N. Oberly, Manager, Product Plonning and Marketing Reseorch, Atomic Power Equipment Department, Son Jose, Calif., oll of Generol Electric Campany.

b. World Status and Future of Fast Reactars. L. J. Kach, Deputy Directar, Reactar Engineering Division and Project Manager, EBR II, Argonne Notionol Laboratory, Argonne, Ill.

c. The Future of Lorge Reactors. W. L. Budge, Marketing Manager, Westinghouse Commercial Atamic Power Department and J. C. Rengel, Monager, Advanced Develapment and Plonning, Westinghouse Commercial Atomic Power Deportment, Pittsburgh, Pa.

d. The Future far Nuclear Superheot and Reheat. R. W. Klecker, Manager of Engineering, C. L. Teeter, Nuclear Engineer and C. B. Graham, Monager, Nucleor Power Department, Allis-Cholmers Manufacturing Company, Greendale, Wis.

## THURSDAY PM

**12:15 P.M. JOINT APC-WSE LUNCHEON—*Bernard Shaw Room.***

CHAIRMAN: Frank Scott, President, Western Society of Engineers and Manager, Utility Sales, Allis-Cholmers Manufacturing Campany, Chicogo, Ill.

CO-CHAIRMAN: Bernard I. Spinrad, Director, Reactar Engineering Division, Argonne National Loborotory, Argonne, Ill.

Speaker: Frank K. Pittman, Director, Division af Reactor Develapment, United States Atamic Energy Commission, Washington, D. C.

Subject: The National Civilion Power Progrom.

**2:00-5:00 P.M. CENTRAL STATIONS V—Economics and Reserve Power—*Grand Ballroom.*** Sponsored by the Power Division af ASME.

CHAIRMAN: J. D. Andrew, Jr., The Babcock & Wilcox Company, Barberton, Ohio.

CO-CHAIRMAN: Theodare Boumeister, Consulting Engineer,

General Public Utilities Corporation and Stevens Professor of Mechanical Engineering, Columbia University, New York N. Y.

a. The Economics of 2400 psig versus 3500 psig for Large Capacity Units. H. J. Petersen, Vice President and Power Consultant, United Engineers & Constructors, Inc., Philadelphia, Pa.

b. Economics of the Selection of 3500 Psig Double Reheat for a 300 MW Unit. R. W. Davies, Senior Engineer and G. C. Creel, Baltimore Gas and Electric Company, Baltimore, Md.

c. The 100,000 kw Reserve Power Unit. G. W. Clark, Project Engineer, Large Steam Turbine Generator Department, General Electric Company, Schenectady, N. Y. and B. J. Yeager, Manager of Electric Production, Cincinnati Gas and Electric Company, Cincinnati, Ohio.

**2:00-5:00 P.M. ELECTRICAL VI—Measurements and Transducers—*Louis XVI Room.*** Sponsored by Power Division IEEE.
CHAIRMAN: D. M. Sauter, Electric Utility Engineer, Minneapolis-Honeywell Regulator Company, Pottstown, Pa. and Chairman, Power Plant Control, Protection, and Automation Subcommittee, Power Generation Committee, IEEE.
CO-CHAIRMAN: G. T. Jacobi, Assistant Director, Electronics, Armour Research Foundation, Chicago, Ill.

a. A Method of Evaluating Transducers for Computer Installation. D. E. Cate, R. J. Lukens and D. M. Sauter, Minneapolis-Honeywell Regulator Company, Pottstown, Pa.

b. The Application of a Combined Sensor and Computer System for Accurate Performance Monitoring of Plant. Jack McDonough and William Stephens, Jr., Georgia Power Company, Atlanta, Ga. and J. C. Westcott, General Electric Company, Schenectady, N. Y.

c. The Effect of Data Errors on Performance Computing. W. F. Kinney, W. A. Strandberg and N. R. Kurchar, Application Engineers, Bailey Meter Company, Cleveland, Ohio.

d. Digital Telemetering and Remote KWH Reading. J. A. Howells, Project Engineer and B. E. Godfrey, Sales Engineer, Leeds and Northrup Company, Philadelphia, Pa.

**2:00-5:00 P.M. ELECTRICAL VII—Electrical Distribution—*Crystal Room.*** Sponsored by Chicago Section IEEE.
CHAIRMAN: E. L. Nicolson, Manager, Electric Utility Application Engineering, Central States Region, General Electric Company, Chicago, Ill.
CO-CHAIRMAN: F. J. Kovalcik, Midwestern Editor, ELECTRICAL WORLD, Chicago, Ill.

a. Why Strip Conductor and Why Aluminum? W. J. Novak and W. N. Pahel, Delta-Star Division, H. K. Porter Company, Lynchburg, Va.

b. A New Angle in Substations. Harold Fossum, Chief Electrical Engineer, Pioneer Service and Engineering Company, Chicago, Ill.
Discussions by L. C. Weber, Northern States Power Company, Minneapolis, Minn. and L. T. Guess, Aluminum Company of America, Pittsburgh, Pa.

c. Parallel Capacitor Switching with Vacuum Switches. R. L. Winship and G. N. Lester, Engineers, Allis-Chalmers Manufacturing Company, Boston, Mass.

d. A New Kind of Distribution Transformer. M. B. Mallatt, Manager, Transformer Division, Maloney Electric Company, St. Louis, Missouri.

**2:00-5:00 P.M. INDUSTRIAL V—Heating and Air Conditioning—*Assembly Room.*** Sponsored by the American Society of Heating, Refrigerating and Air Conditioning Engineers.
CHAIRMAN: Louis Oosten, Vice President, Engineering, Bell & Gossett Company, Morton Grove, Illinois.
CO-CHAIRMAN: Edward R. Teske, Chairman, Illinois Chapter, ASHRAE and Executive Secretary, Mechanical Contractors, Chicago Association, Chicago, Ill.

a. Economic Evaluation and Operating Performance Study of

o Gas Turbine Power Plant Installed at Park Plaza Center, Little Rock, Arkansas. Maurey Hughes, Jr., Vice President, Leo L. Landover and Associates, Inc., Consulting Engineers, Dallas, Texas.

b. 750 Hp Air Source Heat Pump. Ross E. Polking Horne, Design Supervisor, Air Conditioning, and Patrick R. Dwyer, Supervisor of Heating Sales, The Detroit Edison Company, Detroit, Mich.

**2:00-5:00 P.M. NUCLEAR POWER PLANTS III—Operating Experience and Performance of Nuclear Power Stations —*Bal Tabarin Room.*** Sponsored by the Chicago Section of the American Nuclear Society.

CHAIRMAN: Manson Benedict, President, American Nuclear Society and Head, Department of Nuclear Engineering, Massachusetts Institute of Technology, Cambridge, Mass.

CO-CHAIRMAN: Lymon Templin, Chairman, Chicago Section, American Nuclear Society and Assistant Director, Reactor Engineering Division, Argonne National Laboratory, Argonne, Ill.

a. Operating Experience at Hallam Nuclear Power Facility. J. D. Cochran, Plant Superintendent, Sheldon Station, Consumers Public Power District, Hallam, Neb.

b. Operating Experience at Indian Point Station. W. J. Cahill, Nuclear Plant Engineer, Consolidated Edison Company; and H. R. Freyberg, General Superintendent, Indian Point Station, Consolidated Edison Company, New York, N. Y.

c. Initial Approach to Power at Big Rock Point Nuclear Plant. Robert L. Haueter, Nuclear Plant Operations Supervisor and Leland M. Housler, Plant Superintendent, Big Rock Point Nuclear Plant, Consumers Power Company, Charlevoix, Mich.

d. Highlights of Operating Experience During Post Year at Yankee Nuclear Plant. L. E. Minnick, Nuclear Engineer, Yankee Atomic Electric Company, Rowe, Mass.

e. Highlights of Operating Experience During Post Year at Dresden Nuclear Power Station. C. B. Zitek, Assistant Superintendent, Dresden Station, Commonwealth Edison Company, Morris, Ill.

## ANS CHICAGO SECTION DINNER

***Louis XVI Room*** **Social Hour 6:00 P.M. Dinner 6:45 P.M.**

Arranged by the Chicago Section of the American Nuclear Society.

Speaker: Manson Benedict, President, American Nuclear Society.

Subject: Prospects for Central Station Nuclear Power.

Reservations and tickets for the ANS dinner may be purchased for $6.00 at the American Nuclear Society Desk during the conference or may be purchased in advance along with your conference registration. Tickets purchased in advance will be held at the ANS desk for pickup on arrival. Everyone is cordially invited to attend.

## FIELD TRIP TO ARGONNE NATIONAL LABORATORY

The Chicago Section of the American Nuclear Society is arranging a field trip to Argonne National Laboratory on the morning of Friday, March 29, 1963. Tour will leave Sherman House at 8:00 A.M. and return to the hotel in time for lunch in the early afternoon. Facilities to be visited are the Zero Gradient Synchrotron, Zero Power Reactor Facilities intended for fast reactor studies, Research Reactor CP-5, and discussion of programs and facilities. Those interested should make reservations by writing to Mr. D. M. Leppke, Pioneer Service and Engineering Company, 400 West Madison Street, Chicago 6, Illinois. Price of the tour will be $4.00. Since only a limited number can be accommodated, early response is requested.

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# SESSION SCHEDULE

| Day | Time | Grand Ballroom | Louis XVI Room | Assembly Room | Crystal Room | Bal Tabarin Room | Bernord Show Room |
|---|---|---|---|---|---|---|---|
| Tues. Mar. 26 | 10:00 AM | Opening Meeting | | | | | |
| | 12:15 | | | | | | APC-ASME Luncheon |
| | 2 PM | Central Stations I | Electrical I | Industrial I | Water Technology I | Steam Generators, | |
| | 3:30 | Lake Nasworthy | EHV Transmission A-C | Industrial Problems | | Power Plant Cycles | |
| | 8:00 | | | | | Evening Session | |
| Wed. Mar. 27 | 9 AM | Central Stations II | Electrical II | Ind. II-Elec. III | Fuels | Water Technology II | |
| | 10:30 | Consolidated Edison | EHV Transmission D-C | Industrial-Electrical | | | |
| | 12:15 | | | | | | APC-IEEE Luncheon |
| | 2 PM | Central Stations III | Electrical IV | Industrial III | Engineering Manpower | Nuclear Power Plants I | |
| | 3:30 | Bull Run | System Planning | Water Technology III | | Fuels | |
| | 6:30 | All Engineers Dinner | | | | | |
| Thur. Mar. 28 | 9 AM | Central Stations IV | Electrical V | Industrial IV | | Nuclear Power Plants II | |
| | 10:30 | Mine Mouth Plants | Automation & Control | Power Plants | | Reactors | |
| | 12:15 | | | | | | APC-WSE Luncheon |
| | 2 PM | Central Stations V | Electrical VI | Industrial V | Electrical VII | Nuclear Power Plants III | |
| | 3:30 | Economics | Meas. & Transducers | Heating & Air Cond. | Electrical Distribution | Operating Experience | |

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OR RELEASE:
IMMEDIATE

January 30, 1963

CHICAGO, ILL. -- A versatile program emphasizing recent major achievements in power generation, transmission and distribution will be presented at the 1963 annual meeting of the American Power Conference to be held on March 26-28, at the Sherman House in Chicago. Sponsored by the Illinois Institute of Technology in cooperation with nine engineering societies and fourteen universities, the conference is observing its silver anniversary, according to Dr. R. A. Budenholzer, director of the conference.

Highlighting the electrical part of the program will be a series of sessions on the latest developments in electrical practice, particularly extra high voltage transmission, both A-C, and D-C, according to Dr. W. A. Lewis, chairman of the electrical division of the conference. Growth of interest in 500 kilovolts for major interconnections has led to a group of papers devoted to special problems associated with this voltage. With D-C transmission being applied to several special situations, it warrents careful attention in the United States for both special and possible general application for system interconnection. New developments in automation, computer application, system planning, distribution, sensors for instrumentation and related topics will be included.

-more-

ADD. 1

In the mechanical area, special emphasis will be placed on advancements in central station power plant design and construction. Stations capable of generating as much as 1,000,000 kilowatts with a single giant turbo-generator set will be discussed. Also on the agenda will be a discussion of plants to be built at the mouths of coal mines to minimize the cost of transportation of coal from mine to plant. Other sessions will feature the use of large aircraft gas turbines especially modified for power generation in central station plants and the use of combined gas turbine-steam turbine generators.

Nuclear sessions devoted to operating experience on five newly-constructed atomic plants will be included along with papers devoted to recent advances in the design and economics of nuclear power reactors.

All are invited to attend.

A copy of the tentative program is enclosed.

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OR RELEASE:
IMMEDIATE

January 31, 1963

CHICAGO, ILL. -- The National Aeronautics and Space Administration recently announced the selection of Illinois Institute of Technology as one of a number of colleges and universities to receive graduate training grants for the academic year 1963-64.

The IIT grants will go to ten predoctoral students who have chosen a graduate study research program which is space-oriented, and will total $188,700 over three years. NASA's purpose in awarding the grants is to help achieve the long range objectives of the national space program and to meet the nation's future needs for highly trained scientists and engineers, according to an agency spokesman. These skills are in short supply and will be needed in increasing numbers over the next decade, he said.

IIT was selected by NASA not only because it conducts doctoral programs in space-related science, but because of its plans to broaden and strenghten these programs. The candidates for graduate degrees will be selected by IIT and will enter the program in September of 1963. Each student chosen will receive a stipend of $2,400 per year plus dependancy allowances of up to $1,000. The grants will also cover tuition and university costs. Each student is assured three years of graduate study, providing he maintains a satisfactory record.

-30-

Six Chicago high school students who have won full-tuition scholarships to Illinois Institute of Technology attended a reception today on the IIT campus. Their host was Dr. Thomas E. Hogan, IIT dean of students. The scholarships, which are for one year, are awarded annually on the basis of students' consistently excellent high school academic records, service to the high school or community, and high scores on a College Board examination, which is used as a scholarship examination. This year all six scholarship winners will enroll in IIT's Division of Engineering and Science.

Shown above are (l. to r.) Dean Hogan; Dr. Ralph G. Owens, IIT dean of engineering and physical sciences; Melinda Rieske, 5600 S. Richmond, Gage Park H.S.; Richard H. Greb, 5641 N. Spaulding, Von Steuben H.S.; Susan Novak, 4740 N. Sawyer, Roosevelt H.S.; Edward A. Hartwidge, 11366 Hermosa, Morgan Park H.S.; Richard Wackerlin, 4001 N. Menard, Schurz H.S.; and Kenneth G. Petrulis, 3858 W. 59th Pl., Lindblom H.S.

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ILLINOIS INSTITUTE OF TECHNOLOGY
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For further information on this release, contact:

Liz Levy
CAlumet 5-9600, Ext. 2748

FOR RELEASE: IMMEDIATE

February 1, 1963

CHICAGO, ILL. -- Members and friends of the Illinois Institute of Technology Women's Club will meet on February 16 for the annual Julia Beveridge benefit dinner, it was announced by Mrs. Bernard Weissman President.

Julia Beveridge was the first librarian at Armour Institute (now IIT) and the annual dinner is held in her honor. Proceeds are traditionally donated to an IIT scholarship supporting a sophomore student.

Following the dinner, the ladies will attend a public recital in the Hermann Union Building auditorium by Lois Marshall, Canadian soprano.

Members of the dinner committee, Mrs. Stothe P. Kezios, 3100 South Michigan Ave.; and Mrs. Haldon A. Leedy, 330 Blackstone Ave., La Grange, have arranged for dinner guests to meet in the faculty club lounge of Hermann Hall at 6:30 p.m. for a social hour. Dinner will follow at 7:15 in the ballroom. Miss Marshall's concert will begin at 8:30 p.m.

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John Love
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OR RELEASE: IMMEDIATE

February 4, 1963

CHICAGO--On Wednesday evening at 8:00, February 6, the Illinois Institute of Technology Techawks will travel to Aurora, Illinois to engage the Aurora College Spartans at Aurora West High School.

It will be the second meeting of the teams this year, with Aurora winning the first match at IIT.

In IIT's last contest Wisconsin State of LaCrosse was beaten 65-59. Leading the Techawk attack was 6'4" forward Dan Benevich. Benevich, held under his 23 point average in the last four games, broke loose against LaCrosse for 34 points and 17 rebounds.

Aurora, currently among the nation's defensive leaders, is led by the Burnell brothers, Woody and Buck.

IIT's next game will be this coming Saturday, February 9 against the University of Chicago, whom the Techawks beat 66-46 earlier this season.

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Ed Hansen
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OR RELEASE:
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February 7, 1963

CHICAGO, ILL. -- Canadian soprano Lois Marshall will present a concert on Saturday, February 16, at 8:30 p.m. in the Hermann Union Building on the campus of Illinois Institute of Technology. Miss Marshall's appearance will mark the fourth in a series of six performances at IIT by internationally-known musical artists during the 1962-63 academic year.

In the ten years since her debut in the United States at New York's Town Hall, Lois Marshall has received widespread acclaim from both critics and audiences for the beauty and clarity of her voice and the feeling implicit in her singing. She has been singled out for feature performances by many leading conductors and orchestras, including the late Sir Thomas Beecham, Leopold Stokowski, and the Chicago and Boston Symphony Orchestras.

Arturo Toscannini chose Miss Marshall to sing the soprano role in his presentation of Beethoven's"Missa Solemnis." Time Magazine reported on her first rehearsal with Maestro Toscannini, "Toscannini was murmuring 'Brava' before she had gone very far . . . 'Bravissima' at the end."

-more-

ADD. 1

On March 9, musical comedienne Anna Russell will appear at IIT, and the concert series will conclude on April 20 with the appearance of Suzanne Bloch, lutenist, singer to the lute, and player of virginals and recorders.

The series is sponsored by IIT and its Student Union Board, and is open to the public. Student admission prices are from $2.00 up, general admission from $3.00.

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FOR RELEASE:
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February 7, 1963

CHICAGO, ILL. -- Orson Wells' 1949 detective thriller, "Touch of Evil," opens the International Art of Film Series this Sunday at 8:00 p.m. in Illinois Institute of Technology's auditorium, Grover M. Hermann Hall, Dearborn and Federal streets.

The 17 week series features many noted foreign films, among them classics by Bergman, Eisenstein, De Sica and Cocteau. Gill Pabst's "The Three Penny Opera," (Germany-1931) is the earliest-made film of the series, while Alain Resnais' "Hiroshima mon Amour" (France-1959) is the most recent.

The series includes:

| SHOWING | FILM | DIRECTOR | DATE MADE |
|---|---|---|---|
| Feb. 10 | Touch of Evil | Wells | 1949 |
| Feb. 17 | The Devil's Wanton | Bergman | 1949 |
| Feb. 24 | The Three Penny Opera | Pabst | 1931 |
| March 3 | La Strada | Fellini | 1954 |
| March 10 | Rasho-Mon | Kurosawa | 1951 |
| March 17 | Ditte-Child of Man | Henning-Jensen | 1946 |
| March 24 | Ivan the Terrible Part I | Eisenstein | 1944 |
| March 31 | Ivan the Terrible Part II | Eisenstein | 1946 |
| April 7 | Hiroshima Mon Amour | Resnais | 1949 |
| April 14 | Pather Panchali | Rey | 1956 |
| April 21 | Vampyr | Dreyer | 1931 |
| April 28 | Arsenal | Donshenko | 1929 |
| May 5 | Rules of the Game | Renoir | 1939 |
| May 12 | The Young and the Dammed | Bunel | 1951 |
| May 19 | Bicycle Thief | De Sica | 1949 |
| May 26 | Kanal | Wadja | 1959 |
| June 2 | Blood of a Poet | Cocteau | 1932 |

Admission price is 75¢. Series and part series ticket are available at reduced rates.

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FOR RELEASE:

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February 7, 1963

CHICAGO, ILL. -- A group of leading U.S. industrial executives will meet February 13th on the campus of Illinois Institute of Technology to match wits with an electronic computer and with one another in a scientific game.

The players will be participants in a workshop on "Improving Decision Making in a Smaller Company," jointly sponsored by IIT and the Society for the Advancement of Management. The game will be based on an executive decision game developed at UCLA, which simulates the economic operation of a one-product industry comprising many firms.

The purpose of the game is to develop in management people a broad realization of how their decisions affect the company as a whole, and the importance of an carefully designed and consistant company strategy.

From the group attending the workshop, a number of teams will be chosen, each team made up of people from the various phases of management, such as production, marketing, etc. Each team will compose the management of a single "company." The teams will meet separately and plan the strategy of their "company" for the forthcoming quarter year, having only a general economic forecast as a guide.

-more-

The teams will decide matters such as pricing policy, expenditures for marketing, research and development, plant modernization and expansion, whether to compete on price rather than depending on advertising and product features and the quantity of product to be produced during the coming quarter. The quantity of the product sold will depend upon general economic factors plus the interaction of the decisions of all the company teams in the hypothetical industry.

When each team has made its decisions, results will be computed on an IBM 1620 computer at IIT's computer center. As the computer gives the results for each quarter, plans for the succeeding quarter will be modified by each team accordingly. The game will cover approximately 8 quarters (two years) and the team making the highest "profit" over the period of the whole game will be the winner.

The workshop will take place in the Grover M. Hermann Hall on the IIT campus, and will last from 8:30 a.m. till 4:00 p.m. The principal speaker, C. Robert Egry, professor of industrial engineering at Notre Dame University, will discuss the value of management games in training people for top management, various alternative team organizations for game purposes, and suggested company policies and strategies.

-more-

ADD. 2

The luncheon speaker will be Dr. Thomas Whisler of the University of Chicago graduate school of business who will discuss the impact of modern business computers on management organization and control. Guests will inspect the IBM 1620 computer on the IIT campus.

The registration charge,which is for the entire workshop, including the luncheon, is $30.00 for SAM members and $40.00 for non-members. Further information about the workshop and registration forms may be obtained from Tom Roy at Donald R. Booz & Associates, 20 N. Wacker Drive, Chicago. His telephone number is 372-8487.

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FOR RELEASE:

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February 8, 1963

CHICAGO -- At 8:00 on Saturday evening, February 9 the Illinois Institute of Technology basketball team will engage the University of Chicago Maroons at the Chicago fieldhouse for its second meeting of the year. On January 8 the Techawks routed Chicago 66-46 at the Dunbar High School Gym, giving IIT three straight wins over Chicago.

The Maroons are currently 11-3 after downing Brandeis at the Chicago Stadium last Saturday. Chicago, among the top ten small colleges in defense, is led by 6'8" center Gene Ericksen and sparkplug guard Larry Liss.

In the last game IIT came from behind to down tall Aurora 67-65 in Aurora, giving the Techawks a 8-6 season record. The IIT attack was led by 6'4" forward Dan Benevich who had 20 points and 6'5" center Tom Seibert with 17 points. Benevich is averaging 23 points a game so far and also leads the Techawks in rebounding.

The IIT-Chicago game at 8:00 will be preceeded by a j-v game between the schools at 6:00. The IIT j-vs are now 2-0.

After Saturday, IIT's next game will be on Feb. 12 against Lewis College and will be played at Lockport, Illinois. Chicago's next match will be on February 16 at Drake University.

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OR RELEASE:
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February 11, 1963

CHICAGO, ILL. -- "The Rosetta Stone of Life" is the title of a February 15 lecture by Dr. George W. Beadle, president of the University of Chicago, the third in the current Sigma Xi lecture series being held at Illinois Institute of Technology.

The lecture will deal with DNA (deoxyribonucleicacid) the basic hereditary material contained in virtually all living forms. As the substance which constitutes the genes, DNA contains and stores within the genes, the secret of a human being's heredity.

Currently chairman of the American Cancer Society Scientific Advisory Council and the National Academy of Sciences Committee on Genetic Effects of Atomic Radiation, Beadle is also a member of the President's Scientific Advisory Committee. He holds numerous scientific honors including the 1958 Nobel Prize in Medicine, the Albert Einstein Commemorative Award (1958) and the Lasker Award of the American Public Health Association (1950). He has made substantial contributions to the chemical methods of studying mutations - a field which has revolutionized the science of genetics.

Dr. Beadle will speak on Friday, February 15 at 8:00 p.m. in IIT's Chemistry Auditorium 3255 South Dearborn. The public is invited.

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OR RELEASE:

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February 11, 1963

CHICAGO, ILL. -- The fact that purely psychological stress is capable of producing gastric ulcers in laboratory animals has been demonstrated for the first time in a series of experiments recently conducted by Dr. Marion H. Groves of Illinois Institute of Technology.

The purpose of these experiments was to gain new insight into the process of ulcer formation in the human being. This, in turn, may open new roads to the treatment and prevention of ulcers in man.

Groves, who is acting dean of the graduate school and associate professor of psychology at IIT, subjected groups of white rats to electric shocks and trained half of the animals to turn off the shock by pressing a lever. Pairs of rats were placed in adjacent cages, the floors of which were electric grids. One of the animals in each pair was untrained and did nothing but receive the shock until the other animal turned it off.

Later, the circuits were changed in most of the cages. The trained rats in these cages could turn off the current by pressing a lever only part of the time. At other times, pressing the lever had no effect. The psychological stress that this caused in the trained rats is termed "expectancy failure" by Dr. Groves.

-more-

When the stomachs of the rats were examined at the end of the experiment, it was found that ulceration had taken place in the stomachs of some of the trained rats, the ones that had experienced expectancy failure, but ulcers did not occur in the stomachs of the untrained rats, which had experienced only the electric shock. This indicates that physical stress alone did not cause ulceration, but had to be accompanied by psychological stress.

On the other hand, ulcers did not occur in those rats which experienced expectancy failure but received only mild shocks. This indicates that the intensity of the psychological stress is directly related to the strength of the motivation (in the case of the rats, desire to terminate a heavy shock by pressing the lever) and to the speed and frequency with which ulcers are developed.

Another interesting result of the experiment was the observation that the rats which developed ulcers also became more aggressive (attacking and biting a rod when it was inserted into their cages), while the untrained rats, which experienced only electric shock and did not develop ulcers, became self-destructive, biting themselves. Dr. Groves is conducting further investigations to discover why these latter phenomena occur.

In detail, the experiment was conducted as follows:

ADD. 2

After four days of training, the trained rats were divided into four groups and the electric curcuitry was changed so that the trained animals of the first group were 25% successful in turning off the shock, the second group 50% successful, the third group 75% successful and the fourth group 100% successful. Successes were distributed unsystematically among failures. In each case the trained rat was paired with an untrained one.

The four groups were subjected to various periods and intensities of shock; and at the end of the experimental period all the rats were anesthetized and sacrificed. The animal's stomachs were opened and examined for ulceration. The results showed that a psychological variable such as the stress induced in the rats by the failure of the shocks to stop when they pressed the lever, as they had been trained to do, produced ulcers when accompanied by a strong motivation (in the form of a heavy shock).

The fact that it was psychological stress and not the physical effects of the electric shock that caused the ulceration is demonstrated by the fact that the control group of untrained rats, which experienced the same shock, but not the "expectancy failure," did not develop ulcers. (Actually, three of the control group did develop ulcers, but this was attributable to the unintentional "training" of these three animals. They became accustomed, during the four days of training, to the shock ceasing when the trained animals pressed the levers, and experienced expectancy failure later when the current failed to stop.)

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OR RELEASE:
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February 13, 1963

CHICAGO, ILL. -- A course for high school seniors in the design, operation, and potential use of the electronic computer will be offered for the first time at Illinois Institute of Technology, beginning Feb. 16, 1963.

Attending the course, which is free of charge, will be 300 seniors selected by the Computer Center staff at IIT. Application forms were sent to 232 Chicago-area high schools.

"The modern computer has come to stay," said Dr. Howard N. Schemising, the assistant director of IIT's Computer Center who organized the course, "and it's bound to affect all our lives in one way or another. Many people believe that the computer is solely a device for carrying out arithemtical calculations. In actual fact, the modern computer has been designed to perform logical functions rather than mere arithmetic. By way of example we can point to such successful applications as class scheduling, language translation and the analysis of election returns."

"We believe that it goes without saying," Schmeising continued, "that computers will assume an increasingly important role in many other areas of modern life. Consequently, we submit that regardless of his future vocation, the intelligent high school student can definitely benefit from an early introduction to computers."

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Schemising stated that actual experience with a west suburban high school had shown that high school students are able to handle, and are interested in, a short but comprehensive computer activity. He also pointed out that high schools have neither the equipment nor the instructors at present to carry out such a course of study "on a non-trivial level." This is why the IIT Computer Center, which does possess the equipment and personnel, is offering its services.

The philosophy of the course, Schmeising stressed, is to introduce the student to what computers are, and how they operate--it is not to train them to be programmers. He also pointed out that superior mathematical ability does not necessarily constitute any advantage for a student. "The student most likely to benefit from this course", he said, "has a logical mind capable of manipulating abstractions. These abilities are astonishingly independent of the student's major course of study. For example, music majors have in many cases proved to be good programmers."

The course, which will be taught by Edison B. Schroeder, a computer systems expert, will cover topics in the following areas:

1. Computation in a historical perspective. Types of computers. Typical means of applications and examples.

2. Digital computer organization. Machine languages and symbolic programs. Programming systems.

3. How to organize a problem for computer solution.

4. Elementary problems will be assigned to the students and they will be given time to actually process their programs on the IIT computer.

The course will be given on Saturday mornings from 9:30 until 10:45. Each student will attend five lectures and one laboratory session, but the same lecture will be given on successive Saturdays to allow for conflicts in the student's schedule, such as scholarship examinations, school games, etc.

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OR RELEASE: IMMEDIATE

February 14-1963

CHICAGO -- On Saturday, February 16 the Illinois Institute of Technology swimming team travels to Valpariso University in Valpariso, Indiana for its seventh meet of the year.

Thus far Ted Erickson's sharks haven't been able to win a meet. Coach Erickson attributes this mainly to lack of depth.

IIT, in its last meet, was downed 62-31 by the University of Chicago. Breaststroker captain Bill Bush and freestyler Bill Anderson paced the Techawks with six points apiece. IIT hosts North Park College at the Valentine Boy's Club next Tuesday.

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OR RELEASE: IMMEDIATE

February 14, 1963

CHICAGO -- On Saturday, February 16 the Illinois Institute of Technology basketball team will host the Loras College Duhawks at 8:00 at the IIT gym, 32nd Street and Dearborn. IIT beat Loras 67-60 in a game at Dubuque, Iowa earlier in the year. Last season the Techawks split a pair of games with Loras.

The Techawks were edged in their latest contest by Lewis College 82-80 at Lockport. Lewis's 6'6" center Lee Lampley led the second half surge that brought the Flyers up from a 16 point deficit. The foul-packed game saw a total of 59 fouls called, with five men fouling out. The loss to Lewis marks the first time this season that any team has beaten IIT twice.

In the Lewis game, 6'3" forward Nick Mathys led IIT with 22 points, closely followed by captain Dan Benevich's 21. However, the best performance of the night was turned in by 6'2" freshman guard Ralph Weber. Weber, who just recently got off scholastic probation, had a perfect night with 5 for 5 from the field and 3 for 3 from the foul line before fouling out in his first collegiate game.

IIT has only two remaining games after Loras; next Tuesday at Elmhurst College and the following Saturday at home against St. Ambrose. The Techawks are currently 8-8 for the year.

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OR RELEASE: IMMEDIATE

February 15, 1963

CHICAGO, ILL. -- An exhibit of 500 technical books from West Germany, selected as fine specimens of the traditional arts of printing and binding, will be on display from Feb. 18th to Feb. 25th at Grover M. Hermann Hall on the campus of Illinois Institute of Technology.

Arranged by the "Publishers and Booksellers" Association of Germany, these books are part of an exhibit now touring the United States. At the same time that the technical books are being shown at IIT, a larger section of the exhibit, comprising 2000 books on general subjects, will be displayed at the main branch of the Chicago Public Library. The exhibit has already visited Los Angeles and San Francisco, and after leaving Chicago will go on to Cambridge, Mass., Washington, D. C. and New York.

Germany has long been renowned for the excellence of its technical books, which are the best-selling export items among the 20,000 books published annually in that country. The books to be shown at IIT have been published within the last few years and range in subject matter from architecture to artificial limbs.

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FOR RELEASE: **IMMEDIATE**

February 18, 1963

CHICAGO, ILL. -- Graduate training in the "polishing" of water is the objective of a $170,000 U. S. Public Health Service grant recently awarded to Illinois Institute of Technology it was announced today by Dr. John T. Rettaliata, president.

Polished water, a term used by sanitary engineers, is water free from harmful contaminants, after being treated by both biological and chemical methods. The grant will support five graduate students working for advanced degrees in sanitary engineering.

Pointing out the growing awareness of need for trained sanitary engineers in the industrial Midwest, Dr. C. Fred Gurnham, IIT professor of civil engineering and chemical engineering, commented that the emphasis of IIT's graduate program is chemical rather than the conventional biological approach. Chemical and biological techniques, one supplementing the other, suggest the possibility of rapid advances in the field, he added.

Among the program's primary objective is the development of new and improved techniques for treating industrial wastes before discharge and before they reach natural streams.

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**IMMEDIATE**

February 19, 1963

CHICAGO, ILL. -- Senator Paul H. Douglas (Illinois) will be the first speaker at Illinois Institute of Technology in a new lecture series entitled, "Viewpoints on Reality."

A senator since 1948, Douglas is noted for his leadership in urban renewal and area redevelopment, and for his liberal position on civil rights. Currently a member of the Senate Finance Committee and Co-chairman of the Joint Economics Commission, his lecture, "A Statesman Looks at Reality," will be given on February 22 at 8:00 p.m.

"An Artist Looks at Reality" will be the point of departure for the talk by noted novelist and critic James T. Farrell on March 8, 11:00 a.m. A prolific author, Farrell is particularly celebrated for his "Studs Lonigan" trilogy.

Dr. Philip Hauser, chairman of the department of sociology at the University of Chicago and an international population authority, will present the third lecture on March 22 at 1:00 p.m. titled "A Sociologist Looks at Reality."

Concluding the series will be Dr. Bergen Evans' talk "Language and Reality," April 5 at 8:00 p.m. Evans is professor of English at Northwestern University.

-more-

ADD. 1

All lectures in this series will be held in Illinois Institute of Technology's auditorium, Grover M. Hermann Hall, 33rd. and Dearborn, and are open to the public, free of charge. The series is sponsored by the Illinois Tech Students Association and Union Board.

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FOR RELEASE:

**IMMEDIATE**

February 21, 1963

CHICAGO, ILL. -- A problem which has assumed great importance and urgency in the construction field in recent years, that of predicting deflections in reinforced concrete beams, is the subject of a research grant awarded by the National Science Foundation to Illinois Institute of Technology.

Sixty thousand dollars will be devoted to a two-year research project entitled "Behavior of Reinforced Concrete Subjected to Repeated Cycles of Loading." The project will be headed by Dr. Sidney A. Guralnick, associate professor of civil engineering at IIT.

The problem of accurately predicting deflection has become particularly acute because of the steadily increasing use of high-strength steels and lightweight aggregates in reinforced concrete construction. The use of these new materials to replace conventional steel and ordinary sand and gravel reinforced concrete tends to magnify the discrepancy between actual deflections observed in real beams and predicted deflections computed according to the presently accepted procedures. Large deflections, if not anticipated by the structural designer, could easily render a building unacceptable, if not downright useless and dangerous.

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ADD. 1

Testing machines in the IIT laboratories capable of exerting up to 1,000,000 pounds of pressure will be used to subject reinforced concrete beams of various sizes, strengths and designs to repeated cycles of loading and unloading of different periods of duration.

In the experiment, the repetition of loading and unloading will duplicate, in a relatively short time, the varying stresses which a beam might undergo over a period of years in an actual structure. In an industrial plant, for example, heavy machinery being removed and replaced, or moved from one area to another, places varying stresses on the structural members of the building.

Data from the experimental phase of the program will be used, with the help of IIT's electronic computer center, to verify existing theories and, if found necessary, to work out an improved "engineering" theory for the deflection analysis of reinforced concrete beams.

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OR RELEASE:

IMMEDIATE

February 22, 1963

CHICAGO, ILL. -- A conference on the problem of obsolescence of engineering skills, the first large-scale meeting of its kind in the United States, will be held March 26 - 27th on the campus of Illinois Institute of Technology.

Representatives of industry and technical education will meet under the joint sponsorship of IIT and the Executive Office of the President, Office of Emergency Planning.

"We're running out of competent engineers in this area not simply because they move to other parts of the country or because our universities aren't producing enough graduates, but because technology is advancing so rapidly," observed Dr. T. Paul Torda, IIT professor of mechanical engineering and chariman of the conference.

He explained that when scientists and engineers stop formal study and work for firms, they often lose contact with important studies and research in their fields.

"This is not a new difficulty," he said. "But the intensity of the problem is new and growing.

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ADD. 1

"Books alone can't help scientific personnel because there is a time lag of at least five years before new technical knowledge becomes available in printed form."

The meeting will be opened by Dr. John T. Rettaliata, president of IIT. Speakers will include Robert Gunness, executive vice-president of Standard Oil Company (Indiana), who will deliver the keynote address; John de Butts, president of Illinois Bell Telephone Company; Clifford H. Shumaker, president of the American Society of Mechanical Engineers; Dr. Edwin D. Harrison, president of Georgia Institute of Technology; Alf Malmros, assistant to the president, IBM Laboratories; Dr. Wendell F. Wood, general supervisor of personnel development and training, International Harvester Company; and Dr. William G. Torpey, consultant, Executive Office of the President, Office of Emergency Planning.

Gunness will be introduced by Bennett Archambault, president and chairman of the board of Stewart-Warner Corporation and president of the Illinois Manufacturers Association. De Butts will be introduced by Dr. Martin A. Elliott, academic vice-president of IIT.

Three discussion groups will consider the causes of obsolesence of engineering skills and methods of combating it. Delegates will seek to determine the magnitude of the obsolescence problem, what companies are doing about it, and what can be done on an industry-wide bases.

Joseph B. Lanterman, president of Amsted Industries, is honorary chairman of the conference.

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FOR RELEASE:

MEMO TO EDITOR:

Attached is the program for the forthcoming Conference on Reducing Obsolescence of Engineering Skills, the first large scale meeting of its kind in the United States, which will meet on the campus of Illinois Institute of Technology March 26-27 under the joint sponsorship of the Executive Office of the President of the United States, Office of Emergency Planning and IIT.

Since we first announced this conference, a great deal of interest has been expressed by the press, both technical and general. If you wish to attend this meeting, or to send a representative of your publication, you will be most welcome.

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FOR RELEASE:

MEMO TO THE EDITOR:

Enclosed is a copy of the program of the 25th Annual Meeting of the American Power Conference sponsored by Illinois Institute of Technology, to be held at the Sherman House, Chicago, March 26, 27, and 28, 1963.

Your attention is invited to such items of general interest as the March 26th luncheon speech by Joseph C. Swidler, chairman of the Federal Power Commission, who will speak on "The National Power Survey and the Public Interest."

Other speeches of more than technical interest will be: "Dialogue of the Deaf-the Problem of Industry-Government Relations" by Logan T. Johnson, president of Armco Steel Corporation, March 26th; "Fighting for the Future" by Charles R. Sligh, Jr., vice chairman of the board, National Association of Manufacturers, March 26th; "Daring to Excell" by Francis K. McCune, vice president, General Electric Company, March 28th; "Research and the Electric Utility Industry" by J. K Horton, president, Southern California Edison Company, March 27th; and "The National Civilian Power Program" by Frank K. Pittman, director, Division of Reactor Development, U. S. Atomic Energy Commission. There will no doubt be many others of interest to your readers.

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ADD 1 --

If, upon reviewing the program, you find any papers of which you would like advance copies, please let us know and we will try to supply them. We do not have advance copies of all papers to be given. Naturally, it is understood that advance copies are not to be reviewed or quoted prior to their delivery at the conference.

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OR RELEASE: IMMEDIATE

March 4, 1963

CHICAGO -- Jack Waeltz, a junior in the mechanical engineering department at the Illinois Institute of Technology, has been elected captain of the 1963-64 IIT basketball squad.

Waeltz, a 6'3" guard, has started for the Techawks all three seasons since entering in 1960, and he is considered the top defensive player on the squad.

Although Waeltz seldon scores in double figures, his playmaking and defense have been a large factor in the Techawks' 37-23 record since he began playing for the team. Waeltz is a 1960 graduate of Freeburg High School in Freeburg, Illinois. While there he played four years of basketball, two years as a varsity starter, and was elected captain there in his senior year.

Although Waeltz played forward for Freeburg, IIT Coach Ed Glancy shifted him to guard. Waeltz also started as a pitcher, short-stop, and an outfielder on Freeburg's baseball team for three years.

Waeltz is attending IIT on an NROTC scholarship. He is also a member of Honor I, IIT's athletic honorary.

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OR RELEASE:

IMMEDIATE

March 5, 1963

CHICAGO, ILL. -- James T. Farrell, renowned novelist, returns to Chicago's South Side, the scene of "Studs Lonigan," his famous trilogy of the 1930's when he speaks March 8th, 11:00 a.m., on the campus of Illinois Institute of Technology.

Farrell's talk, "An Artist Looks at Reality," will mark the second in IIT's current lecture series, "Viewpoints on Reality," and will be particularly concerned with the position of the midwest author today.

Prolific novelist, critic, essayist, and short story writer, Farrell's most recent novel, "The Silence of History," begins a new series on Chicago's South Side of the 1920's.

Scheduled to lecture in the near future at IIT are noted sociologist Dr. Philip Hauser of the University of Chicago, and Dr. Bergen Evans of Northwestern University.

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OR RELEASE:
IMMEDIATE

March 6, 1963

CHICAGO, ILL. -- An $18,955 National Science Foundation grant was recently awarded to Illinois Institute of Technology in support of its "Mathematics Institute," a program for secondary school students of high ability.

Now in its fifth year, the purpose of this program is to supplement the mathematical background of gifted high school seniors, according to Dr. Haim Reingold, director of the Institute and chairman of IIT's mathematics department.

Research mathematicians and mathematics teachers will offer participating students a program of lectures and discussions on some of the important topics of contemporary mathematics.

Classes are scheduled to meet Saturday mornings on the IIT campus during the entire 1963-64 academic year. This program was the first one of its kind. Similar programs are now underway in a number of universities throughout the country, Reingold pointed out.

Over 1,000 students from some 200 Chicago area schools have completed the course and about 300 students are expected to participate this year.

Tuition plus lunch and partial transportation costs for participants are covered by the National Science Foundation grant. Interested students may apply to IIT's mathematics department in May.

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OR RELEASE: IMMEDIATE

March 6, 1963

CHICAGO -- The Illinois Institute of Technology basketball team just completed its 1962-63 season with a 69-67 home win over St. Ambrose College to even an earlier defeat by the Ambrose Bees at Davenport, Iowa.

Although IIT finished 10-9, their worst season in three years, only scrappy Lewis College of Lockport, Illinois was able to beat the Techawks twice. High points in a season of ups and downs were a 66-46 win over the University of Chicago and a 35-32 overtime win over powerful West Virginia Tech to earn the Consolation Championship of the RIT Tech Tourney held in Rochester, New York over the Christmas Holidays.

Captain Dan Benevich, a 6'4", 210 pound forward, ended his collegiate career with 1430 points after scoring 440 this year in 19 games for a 23.2 average. Missing the IIT all-time record by only 48 points, Benevich became second on the all-time list and one of four to break 1000 points, the last being John Olin, a 1961 graduate.

Nick Mathys, 6'3" forward, led this year's team in shooting with a 46.6% and will join Benevich and center Tom Seibert at graduation in June. Jack Waeltz, a 6'3" junior guard, was elected captain for the 1963-64 season.

Letterwinners have been announced by coach Ed Glancy. They are: Ray Anderson, Jerry Arndt, Dan Benevich, Bill Blatter, Jack Carkeek, Con Caswick, John Love, Nick Mathys, Tom Seibert, and Jack Waeltz. Receiving managers awards were Kurt Barker and Ted Handing.

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March 8, 1963

CHICAGO -- Ten lettermen, led by captain and third baseman Dick Byrne, will be the main hopes for Ed Glancy's Illinois Institute of Technology baseball team this coming year. This could be a lean year for the Techawks, who finished 8-8 last season. Without the services of big Grant Hintz and hard-throwing Dave McGuire on the mound, IIT will have to come up with a couple of good freshman pitchers or else improve their hitting about 300% over last year. Leading the returning hitters is sophomore Rich Hanus, a prep all-stater from Morton High, who hit over .300 in his first season of collegiate ball. The schedule opens with St. Procopius on April 9 and ends with a double header with Concordia on May 25. Last year Grant Hintz pitched IIT to a 3-0 shutout over St. Procopius in their only meeting. This year's schedule:

| | | |
|---|---|---|
| April 9 | St. Procopius | Home |
| April 18 | Lewis | Home |
| April 20 | Aurora (2) | Away |
| April 23 | U. I. C. | Home |
| April 27 | Kalamazoo (2) | Away |
| April 30 | U of Chicago | Home |
| May 2 | Lewis | Away |
| May 4 | Loras | Away |
| May 7 | St. Procopius | Away |
| May 10 | C. T. C. | Home |
| May 13-17 | CCC Tourney | |
| May 18 | Elmhurst (2) | Home |
| May 20 | U. of Chicago | Away |
| May 23 | U. I. C. | Away |
| May 25 | Concordia (2) | Home |

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FOR RELEASE:

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March 8, 1963

CHICAGO -- Captain Len Johnson, twelve returning lettermen, and several promising newcomers showed up today at the organizational meeting of the Illinois Institute of Technology track team with hopes of bettering last season's 7-5 record. Last year the team lost its first four meets, but finally hit its stride and lost only a 73-58 decision to DePaul University from then on.

Among the returnees are two IIT record holders, sophomores John Vomastic (pole-vault) and Wayne Leland (high-jump). It appears that the Techawks will be strong in the field events again this season. However, the loss of Jack Novosel in the sprints makes the cindermen weak in the running events, especially the sprints and the half mile. Novosel, who holds the school record of 9.8 in the 100 yard dash, graduated last June.

IIT's first meet, on March 30 against Valpariso University and the University of Illinois at Chicago, will be held at Valpariso, Indiana. The schedule also includes the Elmhurst and Concordia relays.

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OR RELEASE: IMMEDIATE

March 11, 1963

CHICAGO -- The Illinois Institute of Technology wrestling squad has just ended the 1962-63 season, compiling a 1-5-1 record. The following letter awards have been announced by coach Tony Barbaro and athletic director Bernard Weissman: major letters to 1962-63 captain Steve Nugent, John Bush, Bill Cook, and Bill Wald: minor awards to Ron Ozeki, Barry Adler, and Alan Glass.

Bill Wald, a junior electrical engineering major, has been elected captain of the 1963-64 team. Wald, of 3532 S. Francisco Ave. in Chicago, is a 1960 graduate of Tilden High School. He has wrestled at IIT for three years in the 167 pound weight class.

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March 12, 1963

CHICAGO, ILL. -- A revolutionary concept of project planning will be the subject of a series of ten lectures to be given between March 21 and May 23, 1963, on the campus of Illinois Institute of Technology, Dr. Stanley M. Block, IIT's acting director of industrial engineering, announced today.

The technique, known variously as critical path analysis, PERT, LESS, RAMPS, PEP, and by other names, enables the user to determine accurately the total elapsed time and cost necessary to accomplish a large number of interrelated tasks. The method also provides the means for determining how the project completion date can be met with minimal additional cost through optimum allocation of men, equipment and materials.

The U. S. Government, as well as many state, county and city units are requiring bidders to submit planning schedules based on critical path analysis. In addition, many consulting engineers and contractors have found that the application of these techniques have lead to substantial reductions in project cost and completion time.

The object of the course at IIT will be to enable those who attend to apply critical path analysis to their own projects. There will be lectures on the underlying theory and principals of

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the method, along with discussions of actual applications and problems to be solved under guidance.

The ten evening lecture discussions will meet from 6:30 to 9 p.m., beginning Thursday, March 21, in Grover M. Hermann Hall on the IIT campus at 33rd and Dearborn Streets, Chicago. The tuition fee is $100.00 for the complete course.

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FOR RELEASE:

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March 14, 1963

CHICAGO -- On March 30 the Illinois Institute of Technology varsity track team opens an eight meet schedule at Valpariso University against Valpo and the Chicago Illini. The season will be highlighted by the Concordia Relays on May 18.

| Date | Opponent | Place |
|---|---|---|
| March 30 | Valpariso & U of Ill. at Chicago | Valpo |
| April 6 | Lewis | IIT |
| April 20 | Elmhurst | Elmhurst |
| April 30 | Concordia & Elmhurst | Concordia |
| May 4 | St. Procopius | St. Procopius |
| May 9 | Rockford | Rockford |
| May 18 | Concordia Relays | Concordia |
| May 24 | Concordia & Lewis | Concordia |

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FOR RELEASE:

IMMEDIATE

March 14, 1963

CHICAGO -- The Illinois Institute of Technology golf team, led by Captain Jim Brackney, has announced its six meet schedule for the 1963 season, which is climaxed by the Chicago Collegiate Championship match on May 14.

| Date | Opponent | Place |
|---|---|---|
| April 3 | DePaul University | Palos C.C. 1 PM |
| April 16 | Roosevelt University | Jackson Pk. 1 PM |
| April 20 | Chicago & Wayne State | Longwood CC 11 AM |
| April 27 | University of I (Chi) | |
| May 7 | Loyola University | Longwood CC 1 PM |
| May 14 | Chi. Coll. Meet | |

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March 14, 1963

CHICAGO -- Rich Arazi of 7129 East End Street in Chicago has been named captain-elect of the 1963-64 Illinois Institute of Technology varsity swimming team. Arazi, a freshman engineering major at IIT, was one of the 400 yard medley relay team that set a new school record. He was the top backstroker on this season's team, which finished with a 1-7 record.

Arazi prepped at South Shore High School in Chicago, and while there placed first in the 100 yard individual medley and second in the 100 yard backstroke in the City Championship Meet.

Arazi is a member of Alpha Epsilon Pi national social fraternity and is a member of the public relations committee of the Illinois Tech Student Association.

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FOR RELEASE:

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March 15, 1963

CHICAGO -- The "father of the communications satellite," Dr. John R. Pierce, will be principal speaker on April 3rd, at public ceremonies dedicating the new $2,000,000 John Crerar Library building on the campus of Illinois Institute of Technology, Robert C. Gunness, president of the library, announced today.

Pierce is executive director of research of the communications principles and communications systems division of Bell Telephone laboratories.

The Crerar dedication will celebrate the recent move of the million-volume library from its former building in downtown Chicago to its newly-built, more spacious quarters on the IIT campus. The 68-year-old-library, which is a privately-endowed, free public library for research and education in science, technology and medicine, is one of the leading institutions of its type in the world.

The dedication program includes open house library tours and exhibits, beginning at 2 p.m., April 3, and brief formal dedication ceremonies at the library at 5 p.m.

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ADD 1 --

The John Crerar address by Dr. Pierce, to which the public is also invited, will be at 8 p.m., in the auditorium of IIT's Grover M. Hermann Hall, directly north of the library.

In 1955, two years before the first statellite, Russia's Sputnik, went into orbit, Pierce, who had analyzed the possibilities of radio communication by way of artificial satellites, offered the first concrete proposals for satellite communications. Bell Laboratories space communications experiments, such as the "Telstar" project, are based on Pierce's original suggestions.

Gunness, who is executive vice-president of Standard Oil Company (Indiana), said the theme of Pierce's address will be "Technology and Communications." Pierce will discuss ways in which advances in communications technology will affect the exchange of ideas, and the influence of technology both in regimenting men and in giving them greater opportunity for individuality.

Pierce received his Ph.D. degree from California Institute of Technology and has received many awards and honors for his work in electronics. He is the author of five books and more than 150 science articles. He is a consultant to the President's Science Advisory Committees, a member of the Science Advisory Committee of the American Newspaper Publishers Association, and a member of the Panel for Communications of the Institute of Aerospace Sciences. He is also a member of numerous professional and honorary societies.

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FOR RELEASE: IMMEDIATE

March 20, 1963

CHICAGO -- The internationally noted population authority, Dr. Philip M. Hauser, will discuss "A Sociologist's View of Reality" at Illinois Institute of Technology, this Friday, March 22 at 1:00 p.m.

As guest speaker for IIT's current lecture series, "Viewpoints on Reality," Hauser will deal primarily with the acceleration of the urban revolution.

Long concerned with population problems, Hauser has been U. S. representative to the population commission at the United Nations and statistical advisor to the governments of Burma and Thailand. He acted as chairman of the U. S. Bureau of the Census advisory committee for the 1960 census.

Hauser is currently professor and chairman of the department of sociology at the University of Chicago. He has written and edited a number of books, the most recent being "Population Perspectives."

Dr. Bergen Evans' talk, "Language and Reality," will conclude this public lecture series on April 5 at 8:00 p.m. Evans is a professor of English at Northwestern University.

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FOR RELEASE: IMMEDIATE

March 20, 1963

CHICAGO -- The age and early development of the earth will be the subject of a lecture at Illinois Institute of Technology, fourth in IIT's current Sigma Xi lecture series.

Dr. John Laurence Kulp, director of the geochemistry laboratory at Columbia University's Lamont Geological Observatory, will explain how radioactive elements contained in rocks can be used as "clocks" to determine the time of formation and the history of rock systems with great accuracy.

Applying modern geochemical methods to the field, Kulp has investigated such problems as radiochemistry, nuclear geophysics, and worldwide fallout of atomic debris.

Kulp will speak on Friday, March 22 at 8:00 p.m. in IIT's chemistry auditorium, 3255 South Dearborn. The public is invited.

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FOR RELEASE: IMMEDIATE

March 21, 1963

CHICAGO -- Prof. Ludwig Karl Hilberseimer, city and regional planning expert at Illinois Institute of Technology, has been named the 1963 "Chicagoan of the Year in Architecture and Engineering" by the Chicago Junior Association of Commerce and Industry.

The award, which will be presented on March 26th at the Jaycee's annual award banquet in the Conrad Hilton Hotel, is being made in recognition of Hilberseimer's significant contributions in the field of city and regional planning. At the banquet, announcement will be made of the 1963 general "Chicagoan of the Year," who will be selected from among the winners in fifteen catagories.

In his book The Nature of Cities, published in 1956, Hilberseimer outlined a replanned Chicago extending as far as the Fox River in the city's western suburbs. Under his plan, the Chicago inhabitants would be protected from such current problems as slums, traffic hazards, air pollution, parking problems and wild suburbanization.

Hilberseimer, a 76-year-old native of Karlsruhe, Germany, has received many awards for his world-wide contributions to city and regional planning. In 1928 he founded the department of city

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planning at the Bauhaus, famed pre-war German school of design. It was there that he became a colleague of Ludwig Mies van der Rohe, with whom he moved to the United States in 1938. Like Mies, Hilberseimer joined the faculty of Illinois Institute of Technology, where he became a professor and director of IIT's department of city and regional planning.

Hilberseimer is the author of several other books, among them, The New City, The New Regional Pattern, and Mies van der Rohe. He lives at 1510 N. Dearborn Street, Chicago.

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OR RELEASE:

IMMEDIATE

March 22, 1963

CHICAGO -- Illinois Institute of Technology tennis coach Harry Ault and Captain Wayne Davis have started practice in hopes of improving last season's 3-6 record. The following is the 1963 schedule:

| | | | |
|---|---|---|---|
| April 5 | North Park | Away | 3:00 |
| 9 | Wright JC | Home# | 2:00 |
| 16 | U. of Chicago | Home | 1:30 |
| 19 | Concordia | Away | 3:00 |
| 25 | Aurora | Away | 2:30 |
| 26 | Rockford | Away | 3:30 |
| 30 | U of Ill. (Pier) | Away | 3:00 |
| May 1 | U. of Chicago | Away | 1:30 |
| 2 | DePaul U. | Home | 3:00 |
| 3 | Roosevelt U. | Away | 3:00 |
| 8 | Elmhurst | Away | 3:00 |
| 10-11 | C.C.C. Meet* | U of Chicago | |
| 14 | Valpariso U. | Away | 3:30 |
| 16 | Aurora | Home | 3:00 |

# All home meets played on the Lake Meadows Courts

* Chicagoland Collegiate Championships

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OR RELEASE:

IMMEDIATE

March 22, 1963

CHICAGO -- If you had to find five qualified university-level engineering teachers who were willing to leave on ten days notice for a five-month stay in Afghanistan, where would you look?

A good place to start might be Illinois Institute of Technology. In answer to an emergency call from AID (Agency for International Development), IIT is sending two engineers with graduate degrees to teach at the University of Kabul in the Afghan capital. The emergency arose when a number of American teachers had to return to the United States unexpectedly, leaving vacancies on the University of Kabul faculty, with the new semester due to begin in early April. Other American universities, which cooperate in the long-rang AID program of helping underdeveloped countries train engineers, supplied the remaining teachers.

It was particularly important that American teachers be found without delay because the Russians, who have a common border with the remote but strategically-located Asian kingdom, and who have been competing with the United States in supplying aid to the Afghans, would have been only too happy to make up the loss, thus securing a foothold in an engineering faculty that has been English-speaking until now.

The two IIT engineers, who will return to the Chicago campus in time for the beginning of the Fall semester, are Dr. Walter D. Pilkey of the mechanics research division of IIT's Armour Research Foundation, and Leonard Y. Cooper, an engineering graduate student who is currently completing his Ph.D. dissertation at IIT. They will leave Chicago for Afghanistan on March 25th. Cooper lives at 3128 West Jarvis, and Pilkey at 3100 South Michigan.

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OR RELEASE:

IMMEDIATE

March 29, 1963

CHICAGO, ILL. -- On Saturday, March 30, at 10:30 the Illinois Institute of Technology track team will participate in a triangular meet with the University of Illinois at Chicago and Valpariso University. The meet, held at Valpariso, Indiana, will mark the opening of the 1963 season for the Techawks.

Captain and hurdler Len Johnson, along with ten other lettermen will be out to better last season's 7-5 record, and their chances of doing so are considered excellent. Freshman Keith Snuggerud has already broken the school discus record in practice and freshman Dave James is only an inch under sophomore John Vomastic's school pole-vault record. Generally speaking, the Techawks should be very strong in the field events. There is also more depth in the distance races than there was last year. The only weakness is the lack of a replacement for graduated sprinter Jack Novesel, who holds the school record of 9.8 in the 100 yard dash.

Although Valpariso and the Illini both beat IIT last season, the Techawks could take this one if they pile up enough points in the field events to offset a slight weakness in the running events.

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Public Relations
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Institute of Gas Technology

For further information on this release, contact:

Ed Hansen
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OR RELEASE: IMMEDIATE

March 29, 1963

CHICAGO -- Chicago's million-volume John Crerar Library of science, technology and medicine will be rededicated as a free public research facility Wednesday, April 3.

Ceremonies dedicating the 68 year old Library's new $2,000,000 building on the campus of Illinois Institute of Technology will be open to the public.

Dr. John R. Pierce, father of the Bell Telephone System's Telstar communications satellite, will give the dedicatory address, at 8 p.m., April 3, in the auditorium of IIT's Grover M. Hermann Hall, directly north of the library.

Pierce is executive director of research of the communications principles and communications systems division of Bell Telephone laboratories.

The subject of Pierce's address will be "Technology and Communications." He will discuss ways in which advances in communications technology will affect the exchange of ideas, and the influence of technology both in regimenting men and in giving them greater opportunity for individuality.

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ADD 1 --

The dedication program includes open house library tours and exhibits, beginning at 2 p.m., April 3, Herman H. Henkle, librarian, said. There will also be brief formal dedication ceremonies at the library at 5 p.m.

The Crerar dedication will celebrate the recent move of the million-volume library from its former building in downtown Chicago to its newly-built, more spacious quarters on the IIT campus, Henkle said. The library, he added, is a privately-endowed, free public library for research and education in science, technology and medicine, and one of the leading institutions of its type in the world.

Pierce, who will deliver the Crerar Library dedication lecture, offered the first concrete proposals for satellite communications in 1955, two years before the first satellite went into orbit.

Pierce received his Ph.D. degree from California Institute of Technology and has received many awards and honors for his work in electronics. He is the author of five books and more than 150 science articles. He is a consultant to the President's Science Advisory Committees, a member of the Science Advisory Committee of the American Newspaper Publishers Association, and a member of the Panel for Communications of the Institute of Aerospace Sciences. He is also a member of numerous professional and honorary societies.

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OR RELEASE:

IMMEDIATE

April 2, 1963

CHICAGO, Apr. 3 -- Many current predictions about the role computers will play in communications and in information gathering were branded today as "irresponsible," and the work of "fanatics" in a speech given here by Dr. John R. Pierce, executive director of research and of the communications principles and communications systems divisions of Bell Telephone laboratories.

Pierce was principal speaker at the ceremonies dedicating the new $2,000,000 John Crerar Library building on the campus of Illinois Institute of Technology.

Pierce painted a picture of "the stupid computer which is unable to understand spoken English, which is unable to get at the relations between the words of English, which is unable even to translate from one language to another as well and as economically as people can." He stated that a computer used for document retrieval "would smother the user under the flood of information and misinformation it would produce."

"If I have painted a rather gloomy picture of the relations of computers to libraries," Pierce continued, "I have done so deliberately in order to counteract the sadly fanciful picture that has been painted by some irresponsible people."

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Pierce stated, however, that machines such as computers did have their uses in libraries, such as the indexing system which was programmed for a computer at Bell laboratories. He also predicted the use of machines for swift data and facsimile transmission in libraries, a thing which is not too practical at the present.

"I believe," he said, "far beyond this, that someday, somehow, things will be done which resemble in a superficial degree, if not deeply, the things that fanatics have promised and badgered us about, but have failed to produce."

"From electronics and other sciences," he continued, "many interesting tools are available which do have some applicability to other information problems, and, indeed, to the problems of the library. I think that the talk of revolution, of which we have heard so much, is largely idle fancy, based on no thoughtful examination of the problems that actually face libraries, and reflecting little understanding of the limitations of present, and indeed of future computer and electronic art."

He concluded by predicting that "the important body of technology gathered together in the Crerar Library will through a happy and successful course of evolution contribute to making it and all other libraries more effective in the future, so that, if we could look 10, or 20, or 30 years ahead, we would find things so pleasing and useful and sensible that we would wonder how we could have failed to foresee them.

Pierce was introduced by Robert C. Gunness, president of Crerar Library and executive vice-president of Standard Oil Company (Indiana).

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FOR RELEASE: IMMEDIATE

April 2, 1963

CHICAGO, ILL. -- On Wednesday, April 3 the Illinois Institute of Technology golf team will open its 1963 season at the Palos Country Club against DePaul University. IIT Captain Jim Brackney will join lettermen Wayne Kosterman, Dwight Hull, and John Collins in hopes of avenging last season's loss to DePaul. No starting lineup has been announced by Ray Faloona, coach of the Techawks. Among the DePaul golfers is their basketball star M. C. Thompson.

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April 2, 1963

CHICAGO -- The following is a composite list of the winter letter winners at the Illinois Institute of Technology as announced by athletic director Bernard Weissman:

Basketball--Ray Anderson, Jerry Arndt, Dan Benevich, Bill Blatter, Jack Carkeek, Con Caswick, John Love, Nick Mathys, Tom Seibert, and Jack Waeltz. Curt Barker and Ted Handling were managers.

Swimming--(Major) Rich Arazi, Bill Busch, Rich Scalzo, and Steve Williams. (Minors) Mike Aichinger, Scott Bartlett, Ed Erisman, and Tom Tappan.

Wrestling--Barry Adler, John Bush, Bill Cook, Al Glass, Steve Nugent, Ron Ozeki, and Bill Wald.

The captains for the 1963-64 seasons are Jack Waeltz-basketball, Rich Arazi-swimming, and Bill Wald-wrestling.

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FOR RELEASE:

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April 3, 1963

CHICAGO, ILL. -- Dr. Bergen Evans, professor of English at Northwestern University, will give a free public lecture on the campus of Illinois Institute of Technology this Friday at 8:00 p.m.

Guest speaker for the final talk in IIT's "Viewpoints on Reality" series, Evans will discuss "Language and Reality," relating reality to "correct" and "incorrect" speech and writing, and emphasizing the problems encountered in important communications where correctness may be a vital issue.

A noted language authority, Evans has written books in the field, and has appeared on several television programs including CBS's "The Last Word," winner of the Peabody Award for "Outstanding Public Service during 1957."

Evans will lecture in Grover M. Hermann Hall auditorium, 33rd. and South Federal.

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OR RELEASE: IMMEDIATE

April 4, 1963

CHICAGO, ILL. -- The Illinois Institute of Technology track squad will hold its sole home meet at 10:30 on Saturday, April 6 against Lewis College of Lockport. The Lewis Flyers will be out to even the series which started last year, as the Techawks swept a triangular match with Lewis and Wright.

Although the Techawks lost sprinter Jack Novesel, they are considerably stronger than last season with the addition of Keith Snuggerud in the shot and discus, Dave James in the pole-vault, Russ Glastetter in the distance races, and Steve Hosp in the half and 220.

Last Saturday IIT opened its season as it finished third to powerful Valpariso University and Navy Pier. The Techawks only firsts were by John Vomastic in the pole-vault and Wayne Leland in the high-jump.

The Lewis meet will be held on the IIT track at 31st Street and State.

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OR RELEASE:

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April 4, 1963

CHICAGO, Apr. 4 -- "Everyone can't live upstream" was the way Clarence W. Klassen, chief sanitary engineer for the Illinois Department of Public Health, expressed the ever-increasing necessity for better control of water pollution in an address to a meeting of the Illinois Concrete Pipe Association, held today at Illinois Institute of Technology.

In his talk, Klassen treated water pollution as part of the over-all problem of water management, pointing out that water is a limited natural resource, and that the greatest "new source" of water available is water which has already been used.

"We are not running out of water if we put to use our knowledge and prudent measures to make better use of what we have," he said. "While we do need some additional 'technical tools,' we are not making full use of all we now have. We are not making full use of our present knowledge of preserving and protecting our water quality."

"The technical aspects are not the serious or major question," Klassen continued. "The principal question is whether we as a people honestly desire and can economically afford to meet water quality demands. Probably of more significance--how long can we continue not to afford to meet necessary water criteria?"

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ADD 1 --

Klassen pointed out that while the "desalting" of saline water has been hailed as an important and promising factor in supplying needed potable water in the future, "It is highly probable that the demineralization of our spent water supply (normally referred to as sewage) will be a more practical and feasible means of converting undesirable water to water of usable quality. A problem of aesthetics rather than one of techniques would be involved. However, we must face the inevitable fact that we all cannot continue to enjoy the luxury of using water only once and discarding it," Klassen stated.

Citing the fact that there is no more water now than there was a thousand years ago or will be a thousand years from now, Klassen declared, "Regardless of location, the current national and state water resources problem is that of maintaining the quality of our new water and used water suitable for reuse."

"The field of chemistry alone," Klassen said, "is annually giving us some 400 new substances which are used for washing clothes, washing dishes, cleaning cars, killing weeds and controlling insect pests, not to mention the long list of industrial and other uses. After these materials have served their intended purpose, the used substance and the wastes produced in almost all instances find their way into watercourses through the waste collection system. Today we can merely hope that neither a single substance nor the combination of a number of substances...are toxic to aquatic life, animals or humans. I can only say 'hope' because in some instances we actually don't know."

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ADD 2 --

Klassen has been with the Illinois Department of Public Health since shortly after his graduation as a sanitary engineer from the University of Michigan in 1925. He has served as Chief Sanitary Engineer since 1935. He also serves as Technical Secretary of the State Sanitary Water Board, and in this capacity is responsible for the administration and technical aspects of the environmental health program in the health department, which is concerned with water, shelter, air, the disposal of wastes, and the control of natural and man-made hazards, such as radiation. As a sanitary engineering consultant to the World Health Organization, Klassen has carried out assignments all over the world. He prepared a national water pollution act for Japan which is now in effect.

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April 4, 1963

CHICAGO -- On Friday, April 5 the Illinois Institute of Technology tennis team opens its 1963 season against North Park College. The meet, scheduled to start at 3:00, will be held on the North Park home courts. IIT did not play North Park last year, when they finished with a 5-6 record.

Captain Wayne Davis, along with letterwinners Bob Golton, Vic Morgenstern, Mike Friduss, and Frank Kulacki, are expected to be the mainstays of this season's team. Newcomers Jim Fitzgerald and Terry Beal are the top new prospects. Golton and Davis will again hold the top two singles spots and will probably again team up in the number one singles.

IIT returns home next Tuesday, April 9 at 2:00 to face Wright Junior College in their home opener.

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April 8, 1963

CHICAGO -- Two new public relations posts have been created at Illinois Institute of Technology and its Armour Research Foundation, Robert H. Parrish, IIT director of public relations, announced today.

Effective immediately, William R. Cox will serve as director of press relations for ARF and Edward J. Hansen will fill the same position for IIT.

Before joining ARF, Cox had been associated with Raytheon Company's public relations staff for three years in Lexington, Mass. Previous to that he had been a reporter for the Springfield (Mass.) Union. A graduate of Springfield College, Cox attended graduate school at Northeastern University. He served in the U. S. Navy during the Korean War.

Hansen was formerly assistant director of press relations for IIT and ARF. A native of Chicago, he has done public relations work for a number of organizations in this area, including the American Petroleum Institute, the Portland Cement Association, and A. B. Dick Company. He received his bachelor's and master's degrees in English at the University of Illinois. Hansen served in the U. S. Navy during World War II.

Myron T. Noar, who formerly served as press relations director for both ARF and IIT, has joined Merck, Sharp and Dohme, Philadelphia, as manager of press relations.

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OR RELEASE:

IMMEDIATE

April 8, 1963

CHICAGO -- The Illinois Institute of Technology varsity tennis team will play its home opener at the Lake Meadows Courts at 2:00 on Tuesday, April 9. The Techawks will host Wright Junior College, a new opponent on the schedule.

Four lettermen, led by Captain Wayne Davis and Bob Golton, along with several promising newcomers are IIT's hopes of improving last year's 5-6 record. Golton has been the top performer for IIT since he transferred in from DePaul. He has an almost perfect record in the number one singles spot and has teamed up well with Davis in the doubles.

The next match will be at home against the University of Chicago Maroons on April 16.

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IMMEDIATE

April 8, 1963

CHICAGO--On Tuesday, April 9, the Illinois Institute of Technology baseball team opens its 1963 season by hosting St. Procopius College of Lisle, Illinois. The game is scheduled to start at 3:00 and will be played on the IIT diamond at 31st and State Streets.

In their only meeting last season, the Techawks beat Procopius 3-0 behind the excellent pitching of Grant Hintz. However, this season Hintz and No. 2 pitcher Dave McGuire are missing from the Techawk roster, leaving a large hole in their pitching core. Probably getting the starting assignment will be hefty Marty Wengle, who saw limited action last year. Although coach Ed Glancy has ten returning lettermen back from last season's 8-8 team, the only strong point of the 1962 team was the pitching of Hintz and McGuire. However, there are several new prospects who might give the Techawks some sorely needed hitting strength.

After Tuesday, IIT will be idle until April 18 when they host the powerful Lewis Flyers from Lockport, Illinois.

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FOR RELEASE: IMMEDIATE

April 9, 1963

CHICAGO, Apr. 8 -- For the second straight year, Illinois Institute of Technology faculty members will receive a salary increase averaging ten per cent of their yearly pay, Lester Armour, chairman of the IIT Board of Trustees, announced today.

Armour, who is also vice-chairman of the Harris Trust and Savings Bank, said the budget for the 1963-64 academic year, approved by the IIT trustees today, represents a 23% increase over instructional expenses for 1961-62. The total IIT budget for the 1963-64 academic year, Armour stated, would approximate 10 million dollars.

Reporting other action of the board, Armour disclosed that they had voted to change the name of two of IIT's divisions. Henceforth, he said, the former Division of Engineering and Physical Sciences will be known as the College of Engineering and Physical Sciences, and the former Division of Liberal Studies will become the College of Liberal Arts.

The trustees also approved the adoption of four new degree programs. In the Department of Metallurgical Engineering, the board approved a course of graduate study leading to the degree of Master of Metallurgical Engineering, involving six new graduate courses. In the Department of Language, Literature and Philosophy, three new graduate degrees were approved: Master's degrees in English, Linguistics, and Science Information. On the undergraduate level, courses were approved leading to bachelor's degrees in English, German, Linguistics, and Science Writing.

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April 10, 1963

CHICAGO, ILL. -- Dr. Manley Jones, professor of business management at Illinois Institute of Technology is one of a number of noted educators in the management field who have been called upon to participate in a Harvard University symposium this week to redesign a key course offered at Harvard's Graduate School of Business, IIT's Department of Business and Economics and other schools offering a graduate degree in management an IIT spokesman announced.

This reappraisal will be the first in ten years. Its goal is to incorporate recent advances, such as computer technology, in the conceptual frameworks used in teaching prospective executives.

Called "Top Management Policy," this course is devised for those who intend to fill industry's top positions and is also of immediate use to those in the so-called middle management jobs, supervisors or managers of departments, according to Jones.

Senator Henry M. Jackson (D. Washington) and Professor Peter Drucker, well-known author in the management field and professor at New York University, will speak at the seminar to emphasize the need for modern, consistent business techniques and methods which are applicable to both private industry and government.

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OR RELEASE:

IMMEDIATE

April 12, 1963

CHICAGO -- "Astronomy from Outer Space," is the title of a free public lecture to be given by Dr. Nancy Roman, chief of astronomy and solar physics at the National Aeronautics and Space Administration. Dr. Roman will speak at Illinois Institute of Technology, Tuesday, April 16 under the auspices of IIT's Sigma Xi Society, the Physics Club of Chicago and the American Institute of Aeronautics and Astronauts.

The lecture will emphasize the vital role rockets, space probes and satellites have played in the rapid advances seen in solar, stellar and planetary astronomy.

Dr. Roman, featured in Life magazine last fall in an article on the "Takeover Generation," received her Ph.D. in astronomy from the University of Chicago and served on the faculty of the department of astronomy and astrophysics of the University of Chicago at Yerkes Observatory. Just prior to her present appointment, which she has held since 1960, Dr. Roman acted as head of the observational astronomy program of the Office of Space Flight Development.

The lecture will begin at 8:00 p.m. in the auditorium of IIT's chemistry building, 3255 S. Dearborn.

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FOR RELEASE: IMMEDIATE

April 12, 1963

CHICAGO, ILL. -- The Illinois Institute of Technology department of political and social science announced a new faculty appointment today as another step in the department's current growth and development.

Dr. Daisy Tagliacozzo has been appointed associate professor of the department of political and social science according to Dr. Donald W. Smithburg, acting chairman of the department.

A native of Germany, Dr. Tagliacozzo came to this country in 1947. She earned her B.A. degree from Boston University, and her Ph.D. in sociology from the University of Chicago. She assumes her new position after having served as lecturer in the sociology department at the University of Chicago, the University of Illinois and at Wright Junior College.

Immediately prior to her IIT appointment, Dr. Tagliacozzo was co-director of a project at Presbyterian-St. Luke's Hospital, Chicago, to study the experiences, expectations and perspectives of patients during hospitalization.

A member of the American Sociological Society, the American Association of University Professors, and the National Education Association, Dr. Tagliacozzo is the author of a number of recent papers and book reviews. One of her most recent publications, "The Patient's View of the Patient Role," was written in cooperation with Dr. Hans O. Mauksch, IIT's dean of liberal studies.

Dr. Tagliacozzo and her husband live at 420 Briarwood Place in Highland Park.

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FOR RELEASE: IMMEDIATE

April 15, 1963

CHICAGO -- Dr. Charles H. Malik, distinguished Lebanese diplomat and educator and former president of both the United Nations General Assembly and the Security Council will deliver the commencement address at the graduation ceremonies of Illinois Institute of Technology to be held in Chicago on June 7, 1963, Dr. John T. Rettaliata, IIT president, announced today.

Dr. Malik, who is currently Distinguished Professor at the American University in Washington, D. C., will receive an honorary Doctor of Laws degree from IIT at the commencement exercise. He already holds honorary degrees from 39 institutions of higher learning and has been decorated by the governments of twelve countries.

Malik was graduated from the American University of Beirut, Lebanon, in 1927 and earned a Ph.D. from Harvard in 1934. He has served as professor of philosophy and head of the department of philosophy of the American University of Beirut, and as a visiting professor at Harvard, Dartmouth and the American University in Washington, D. C.

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ADD 1 --

He has also served as foreign minister of Lebanon, minister of national education and fine arts, minister-delegate to Venezuela, Lebanon's ambassador to Cuba, and ambassador extraordinary and minister plenopotentiary to the United States. Malik was a signer for Lebanon of the Charter of the United Nations. He served on the U. N. Committee of Jurists, the Security Council, the Disarmament Commission, the International Bank for Reconstruction and Development, the International Monetary Fund, the Economic and Social Council and UNESCO. He is the author of several books and numerous articles and belongs to more than forty associations and organizations, among them the American Association for the Advancement of Science, the American Geographical Society, the American Academy of Arts and Sciences and is a member of the board of directors of the Woodrow Wilson Foundation.

Dr. Malik, 57, is married and has one son.

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April 16, 1963

CHICAGO -- The election of two new vice chairmen and members of the executive committee of the board of trustees of Illinois Institute of Technology was announced today by board chairman Lester Armour. Armour also announced the election of a new trustee and three new honorary trustees at the Spring meeting of the board held this week.

Named vice chairmen and members of the executive committee were Albert Blake Dick, III, chairman of the board of A. B. Dick Company, producers of office duplicators, supplies and related equipment; and Axel A. Hofgren, patent attorney with the firm of Hofgren, Brady, Wegner, Allen and Stellman. Dick, who has been a member of IIT's board since 1950, becomes vice chairman for business affairs. Hofgren, an IIT trustee since 1954, becomes vice chairman for academic affairs.

The newly-elected trustee is John D. deButts, president of Illinois Bell Telephone Company.

Elected honorary trustees were: Frank W. Jenks, recently retired president of International Harvester Company, an IIT board member since 1956; William V. Kahler, recently retired chairman of Illinois

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ADD 1 --

Bell Telephone Company, on the IIT board since 1946; and Ludwig Skog, Sr., former senior partner in the consulting engineering firm of Sargent and Lundy, an IIT trustee since 1948.

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April 17, 1963

CHICAGO -- Prof. Ludwig K. Hilberseimer, director of the department of city and regional planning at Illinois Institute of Technology, was recently informed of his election to the Akademie der Kuenste in Berlin. This election represents the highest distinction which can be achieved in the art world of present-day Germany.

Hilberseimer was recently honored by Chicago's Junior Association of Commerce and Industry as "Chicagoan of the Year in Engineering and Architecture" for his contributions to Chicago in the field of city and regional planning.

As a member of the Akademie der Kuenste, Hilberseimer will join his old colleague Ludwig Mies van der Rohe, former head of the department of architecture at IIT, and Walter Gropius, former Harvard professor of architecture. All three were associated with the Bauhaus, the famed pre-war German school of architecture and art closed by the Nazis.

The Akademie der Kuenste is the continuation of the Prussian Academy of Arts which, founded in 1692, was the third oldest art academy in Europe.

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FOR RELEASE:

IMMEDIATE

April 17, 1963

CHICAGO -- At 3:00 PM on April 18 the Illinois Institute of Technology baseball squad will host the powerful Lewis College Flyers from Lockport, Illinois. Lewis is missing only four men from last season's squad that finished 27-5, including a 3-1 victory over Big Ten Champs, the U. of Illinois. Lewis was the third place finisher in last year's NAIA tournament. Just beginning a tough 38 game schedule, the Flyers aren't worrying about pitching with a ten man mound core.

Although the Techawks dropped two games to Lewis last season, a much stronger team will meet the Flyers this year. Gary Flanagan and Jim Brown, a couple of hard-hitting freshmen, have given IIT a well balanced lineup of hitters. Hard throwing Ralph Larson will probably get the start against Lewis Thursday.

After Thursday the Techawks travel to Aurora, Illinois for a Saturday double-header with Aurora College.

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FOR RELEASE:

IMMEDIATE

April 18, 1963

CHICAGO -- Dr. Andrey A. Potter, Dean Emeritus of Engineering at Purdue University, was recently honored at the Silver Anniversary Meeting of the American Power Conference in Chicago. The citation for distinguished service to engineering and education was presented before a group of 1200 leaders of industry, education and government by Dr. John T. Rettaliata, president of Illinois Institute of Technology, sponsor of the conference.

Dr. Potter has had a long and distinguished career in engineering and education beginning with graduation from Massachusetts Institute of Technology in 1903. His first employment was with the General Electric Company. Two years later he became a professor at Kansas State University where he remained until 1910. Following this he became associated with Purdue University in Lafayette, Indiana. He rose to the position of Dean of Engineering in 1913 and remained in that position until his retirement in 1953 except for a period from 1945 to '46 when he served as acting president of the university.

Dr. Potter has received many high awards from engineering and educational societies. He served as president of the American Society of Mechanical Engineers in 1932 and as president of the American Society for Engineering Education from 1936 to 1938. He was one of the founders of the American Power Conference which held its first meeting in 1938. It is now the largest conference of its kind in America.

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For further information on this release, contact:

John Love
VI 2-9417

FOR RELEASE:

IMMEDIATE

April 19, 1963

CHICAGO -- On Saturday, April 20, three Illinois Institute of Technology teams will see action. The baseball team, winless in three games, will have two chances for its first victory as it takes on Aurora College at Aurora, Illinois. Marty Wengel will probably get the call as starting pitcher. Although Wengel has been tagged with the losses in his first two appearances, poor fielding (9 errors in 2 games) and weak hitting were the main factors.

The golf team will also be looking for its first win after dropping the first match to DePaul University. The duffers will meet Wayne State and Chicago Universities at the Longwood Country Club at 11:00 Although the Techawks last meet against Roosevelt was rained out before its completion, Captain Jim Brackney shot a 79 to beat Roosevelt's number one man easily.

The track team, fresh from a win over Lewis College, will be trying for two in a row as they travel to Elmhurst College in Elmhurst, Illinois to meet Elmhurst, Milton, and Rockford Colleges Increased strength in the quarter-mile, mile, and two-mile were the main factors in IIT's improved showing against Lewis. Last season the Techawks lost to Elmhurst while beating Rockford and Milton

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FOR RELEASE:

IMMEDIATE

April 19, 1963

CHICAGO -- Interpreting educational opportunities offered at Illinois Institute of Technology is the theme of IIT's seventh annual Parent's Day, Sunday, April 28. Over 1,200 parents, students and members of the faculty are expected at the campus for the occasion according to Dr. Thomas Hogan, IIT dean of students.

This year, for the first time, parents of the incoming freshman class will attend, and the whole program will be planned by the recently formed IIT Parent's Association.

Conducted each year to acquaint parents with the latest developments in IIT's program and facilities, this Parent's Day will begin with a welcoming address at 1:30 p.m. by Dr. John T. Rettaliata, IIT president and host for the day's events. The address will be given in Grover M. Hermann Hall auditorium, 3200 S. Dearborn.

Following the assembly, parents may select one of three faculty panel discussions to question faculty members about careers after college, admission to IIT, financial assistance programs, campus life and related topics. The panel "After College What?"

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will be moderated by Dr. Marion Groves, acting dean of the graduate school. Dr. Hans Mauksch, dean of liberal studies will moderate the panel "Liberal Education for a Professional Career" and the panel "Answers Please" will be moderated by James Barnett, the assistant dean of students.

Parents will have ample opportunity to meet with IIT faculty members during the parent-faculty get-together from 3:15 to 4:00 p.m. and freshman advisors will also be available at that time.

At 4:00 p.m. the program will move out to the athletic field at 31st and Dearborn Streets, for the annual ROTC military review and presentation of student awards. This year 30 students will receive awards from both IIT and the Chicago Tribune.

A buffet supper in the Hermann Hall cafeteria and music by the IIT Techmen chorus will conclude the day's program.

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FOR RELEASE:

IMMEDIATE

April 22, 1963

CHICAGO -- A half-day discussion session designed for the interested industrialist who wishes to keep his company in the forefront of new technology through the application of space research discoveries will take place on the afternoon of May 8, 1963, at the Chicago Civic Opera House.

The session, which is part of the General Conference on the Peaceful Uses of Space, to be held in Chicago May 1-9, will be sponsored by Illinois Institute of Technology and IIT's Armour Research Foundation.

The purpose of the session is to indicate specific industrial and consumer applications of space research. This will be accomplished by summarizing existing applications, suggesting potential future applications, and exploring effective means for more rapidly translating developments in space technology into new industrial techniques and into new and improved products and processes.

IIT president, Dr. John T. Rettaliata, who will preside over the session, said, referring to space research, "Industries are coming to look to government research and development as a source of basic knowledge which pays off in product development."

-more-

ADD 1 --

In an address entitled "Space Technology and its Potential from an Industrialist's Viewpoint," Dr. Earl S. Stevenson, consultant to NASA's Industrial Applications Committee and former chairman of the board of Arthur D. Little, Inc., will discuss the dividends of space technology in greatly expanded telecommunications, new industrial techniques, new power sources, and in new and special materials with fantastic strength and endurance under extremes of heat, cold, vacuum and stress.

Louis B. C. Fong, director of industrial applications for NASA, will speak of the virtually limitless range of space research and its endless potential benefits to industry. He will tell the story of "spin-off" research results, both accomplished and expected, giving examples ranging through medicine to synthetic foods and improved casserole dishes.

"How Companies Have Turned Space Research Results into Industrial Profit" will be the title of a talk by Howard M. Gadberry of Midwest Research Institute. Gadberry will tell how a research institute set out to look for applications of space research results in industry and consumer products and give examples of the many they found, and how firms applied them.

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ADD 2 --

R. Bowling Barnes, president of Barnes Engineering Company, will give the case history of a firm that has found success in the space age, and show how a company's entire future can be changed quickly by space technology advancements--for better or worse.

The session will conclude with a panel discussion led by Dr. Haldon A. Leedy, executive vice-president and director of Armour Research Foundation, on the topic "How to Accelerate the Application of Space Research in Industry." The participants will be the above-named speakers.

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Note to Editors: Copies of the speeches to be given at the session will not be available prior to May 8.

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FOR RELEASE:
IMMEDIATE

April 23, 1963

CHICAGO -- On Wednesday, April 24, the Illinois Institute of Technology track team will travel to River Forest, Illinois, to meet Concordia and Lewis Colleges. The triangular meet is scheduled to start at 4:00 on the Concordia track. The IIT Techawks have not faced Concordia this season, but beat Lewis in a dual meet at IIT.

In the Techawks' last meet against Elmhurst, Milton, and Rockford Colleges four school records fell and another was tied as IIT finished a close second to Elmhurst. Broadjumper George Huxhold of Libertyville, Illinois, jumped two feet farther than he ever had before in a meet to raise the record from 22'3 1/4" to 22' 10". Freshman Dave James, a graduate of Collingswood High School in Collingswood, New Jersey, went 12'3" in the pole-vault to erase the mark of 11'7" set by sophomore John Vomastic last year. Captain Len Johnson of Harvey, Illinois was the leading performer of the day. In addition to a first place in the 100 yard dash, a third in the high jump, and helping the mile relay team to second place, Johnson finished his day's work by breaking both school hurdle records.

-more-

ADD 1 --

Johnson ran the highs in 15.7 to break his own mark of 15.9 seconds and then cut four-tenths of a second off the low hurdles record with a 25.5 clocking. Sophomore Wayne Leland also tied his own mark of 6'2" in the highjump.

After the Elmhurst meet, IIT's record stands at 3-3. The Techawks' main weakness at present appears to be in the middle-distance races (440, 220, and 880), with their main strength in the field events.

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FOR RELEASE:

IMMEDIATE

April 24, 1963

CHICAGO -- The Illinois Institute of Technology tennis team will try to add two more wins to its present 3-1 record this week. Thursday the Techawks travel to Aurora, Illinois, to face the Aurora College Spartans, and then travel to Rockford College on Friday. IIT's sole loss came at the hands of the University of Chicago, as they played without the services of number one man Bob Golton, With Golton back in the number one spot, the Techawks will be out for revenge in their rematch on May 1.

In their last outing the Techawks blanked the Concordia College Cougers 9-0 at River Forest. Captain Wayne Davis, playing in the number one spot due to Golton's absence, easily won the first match by taking his opponent in two sets. After Davis, the pattern was the same right down the line as Concordia was unable to win a set all afternoon.

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OR RELEASE: IMMEDIATE

April 24, 1963

CHICAGO, ILL. -- Are you sure that you can read? -- The ability to read is the ability to interpret, to discriminate and to learn, Mrs. Elizabeth A. Simpson, director of the Reading Service at Illinois Institute of Technology's Institute for Psychological Services said today.

Pointing to the misleading emphasis often placed on increasing reading speed, Mrs. Simpson asserted that "to expect to read rapidly without mastering the total intellectual reading process is to expect to walk before crawling." Based specifically on results of diagnostic reading tests, the program IIT's reading service offers can meet each person's particular reading needs, and is able to offer almost individual tutoring because each class is limited to four students.

Currently Mrs. Simpson is preparing the extensive summer reading program IIT offers for 6 to 8 weeks (one to 2 hours per day) during June and July. She reports that substantial reading progress is made by 95% of those completing the program.

"Our training is particularly useful for junior and senior high school students and for high school graduates because it teaches the students how to learn, how to study, and how to

-more-

discriminate between the important and the unimportant," Mrs. Simpson pointed out. "Once the reading process is mastered, speed is an easily acquired bonus."

To meet the needs of students all over the city, staff members of IIT's Reading Service will offer their summer course at various places in Chicago such as North Shore Country Day School, Glencoe, Harvard-St. George and Chicago Latin School, at a cost of $175.00 for a 40 hour program.

Miss Simpson predicts that more than 400 students will participate.

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OR RELEASE:

IMMEDIATE

April 25, 1963

CHICAGO -- The National Science Foundation has awarded a grant of $96,200, by far the largest grant for its purpose in the United States, to Illinois Institute of Technology for the 1963-64 academic year of its in-service institute for secondary and college teachers of science and mathematics, Dr. Haim Reingold, chairman of IIT's department of mathematics and director of the in-service institute, announced today.

In addition to the size of its grant, Reingold said, IIT's role in the $3.1 million NSF program is unique in that IIT alone, among 213 institutions of higher learning participating, offers programs leading to doctoral degrees to college teachers enrolled in the in-service institute.

The in-service institute is designed to allow teachers to develop greater mastery of their subject matter, and hence greater teaching competence, while they continue to hold their regular teaching jobs. The teachers attain additional levels of professional qualification by working for higher academic degrees.

Forty college and 265 high school teachers from the Chicago area will participate in the IIT on-the-job program. The fields of study will include mathematics, chemistry, biology and physics. The IIT in-service institute was established in 1958 with a NSF grant of $7,000.

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FOR RELEASE: IMMEDIATE

April 25, 1963

CHICAGO -- The Illinois Institute of Technology baseball team will get another two chances to record its first win this weekend. The Techawks travel to Kalamazoo, Michigan for a double-header with Kalamazoo College on Saturday.

Thus far the IIT diamond men have been winless in their first five games. The last outing was a double beating at the hands of Aurora College last Saturday.

Marty Wengel and Ralph Larson, both right handers, will probably get the pitching assignments Saturday. Wengel is 0-3 while Larson is 0-2.

The IIT golf squad is also in action this Saturday as it faces the Chicago Illini at 2:00 on the Woodridge course. Their record is presently 1-2 as they lost to Wayne State and beat the University of Chicago last Saturday.

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FOR RELEASE:

IMMEDIATE

April 29, 1963

CHICAGO -- "Professional Education and Employment in the Soviet Union" will be the topic of a talk by Earl C. Kubicek, director of alumni relations and placements for Illinois Institute of Technology, at a "Kick-Off Dinner" for the 1963 IIT Alumni Fund on May 1 at the Chicago Bar Association.

About 200 IIT alumni will attend the meeting and will participate in the fund drive, which has as its goal the surpassing of the sum of $360,812 contributed by 5,122 alumni in 1962.

Dr. John T. Rettaliata, president of IIT, will also be a featured speaker at the dinner. Maurus T. Goetz, president of Teletype Corp., who received his electrical engineering degree from IIT in 1927, will preside over the dinner and will serve as chairman of the 1963 Alumni Fund.

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FOR RELEASE:

IMMEDIATE

April 29, 1963

CHICAGO -- On Tuesday, April 30, three Illinois Institute of Technology athletic teams will see action. The tennis team, currently 4-1, will play against the Chicago Illini in a match scheduled to start at 3:00. The Techawks won their last outing by beating Aurora College without the use of their number one or two singles men.

The track team with a 4-4 record will travel to River Forest to meet Concordia and Elmhurst Colleges in a triangular meet. Although IIT lost to both schools by small margins, the Techawks are optomistic about this meet. Elmhurst and Concordia figure to split up the points in the sprints and distance races, IIT's weakness, while IIT should dominate the field events.

The baseball team will also be in action as it meets its old rival the University of Chicago. The game will start at 3:00 on the Illinois Tech diamond at 31st Street and Dearborn. The IIT mound staff has just recently been strengthened by the addition of junior Jack Waeltz. This is Waeltz's first year on the Tech squad, but he played four years for Freeburg High School, and he may get the start against Chicago.

On May 1, the tennis squad will again see action as they travel to the University of Chicago in hopes of avenging their only setback this season. That match will start at 1:30.

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FOR RELEASE:

Saturday, May 4, 1963

May 1, 1963

CHICAGO -- Dr. Stanley M. Block, professor of industrial engineering and director of the department of industrial engineering at Illinois Institute of Technology, has been appointed consultant on work measurement and time standards to Local 1031 of the International Brotherhood of Electrical Workers, according to a recent announcement by Frank Darling, president and business manager of the local.

Dr. Block said, "This relationship which has been established with Local 1031, is probably unique in labor union history. They have had the courage to assume that a professional man who has never held a union card can be objective and unbiased in his counsel to a labor union. They are aware that I have frequently served as a consultant to management, but they also know that I have been impressed by the sincerity and ability of many leaders in the union movement."

Block also said that he "often reminds his students that a professional industrial engineer must be as honest and impartial as a baseball umpire, regardless of who pays his salary. He must set time standards that are fair to the worker as well as fair to the company."

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ADD 1 -- IBEW Block Appointment

Darling said that this unusual appointment marked a "first" for his union, and described it as "important contribution to the welfare of Local 1031 members." He explained that Dr. Block has agreed to assist the union in the investigation of complaints and grievances on time standards and production quotas. "Union members," Darling said, "have a right to expect a careful and expert evaluation of time standards whenever the business agent or chief steward of the union is unable to settle the complaint by direct negotiation with company officials."

"Many grievances filed by union members," Darling said, "are what we call 'rate' or 'production standard' grievances. In other words, the employee or employees complain that the rate set by the company is too 'tight.' Such a grievance, if it cannot be settled by negotiation, and should go into arbitration, is a very difficult grievance for the union to win. On the union's side we have the employee or employees who say that the rate is too tight. On the company's side, we have the time study or industrial engineering men who say that the rate is correct and have a lot of figures and decimal points to prove it."

"The impartial arbitrator," Darling continued, "is usually inclined to believe the industrial engineers on the ground that setting rates is their trade and that they are experts. Local 1031 is, therefore, very proud to announce that we now have secured the services of Dr. Stanley Block as our expert on such 'rate' grievances."

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ADD 2 -- IBEW Block Appointment

Darling described Dr. Block as "undoubtedly the best qualified man in the entire middle west" noting that he heads the department of industrial engineering at IIT, "one of the top technical and engineering schools in the world." He said that in any future grievance involving rates or standards, Block would investigate the situation and advise the union. "He will determine whether or not the rates are wrong before we go to the expense of arbitration," Darling went on, "and if he advises the union that the company is wrong, and the company still refuses to adjust the rate, Dr. Block will be our expert witness at any arbitration hearings."

Block received his Ph.D. degree at the University of Minnesota, and taught there for ten years before coming to the University of Chicago as associate professor of production management. He was appointed to his present position at IIT in 1962. During his academic career, Block has continued his practical experience by conducting training programs for company and union officials, by serving as a consultant, and by acting as impartial arbitrator of industrial disputes. He is currently a member of the labor panel of the American Association of Arbitrators as well as a member of various professional societies.

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FOR RELEASE:

IMMEDIATE

May 6, 1963

CHICAGO, ILL. -- Head of the Chicago Art Institute's Education Department, Miss Barbara Wriston, will be the guest speaker at the annual spring luncheon of the Illinois Institute of Technology Faculty Woman's club, May 8. Miss Wriston will discuss the Art Institute's new educational programs for adults and children.

During the social hour following the luncheon, the women will exhibit hobbies in an "Arts and Crafts Fair," planned by Mrs. Charles W. Terrell of 3100 South Michigan and Mrs. John Buttrey of 1821 Driving Park Road, Wheaton, Illinois.

The luncheon will begin at 1:15 p.m. in the mezzanine dining room of IIT's Grover M. Hermann Hall.

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John Love
VI 2-9417

OR RELEASE: IMMEDIATE

May 6, 1963

CHICAGO -- On Tuesday, May 7, the Illinois Institute of Technology baseball team travels to Lisle, Illinois, to meet St. Procopius College for the second time this year. In their first meeting at IIT, St. Procopius was a 10-4 winner.

The Techawks are now 1-7, their sole win being a victory over Kalamazoo College (Michigan) behind the 1 hit pitching of Ralph Larson.

After St. Procopius, the Techawks play CTC on May 10, and then prepare for the Chicagoland Collegiate Championship Tournament, starting on May 13.

Also on the 7th the IIT golf team will face Loyola University at the Longwood Country Club at 1:00. The golf team is now 1-3.

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OR RELEASE:

IMMEDIATE

May 6, 1963

CHICAGO -- On Wednesday, May 8, the Illinois Institute of Technology tennis team travels to Elmhurst College in hopes of recording its sixth win against three losses. The Elmhurst Blue-jays should find stiff competition from the Tech netters, who have scored impressive victories over North Park, Wright, Concordia, Aurora, and Roosevelt.

After Elmhurst the Techawks will enter the Chicagoland Collegiate Championships held this year at the University of Chicago on May 10 and 11.

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FOR RELEASE:

IMMEDIATE

May 8, 1963

CHICAGO -- At 4:00 on Thursday, May 9, the Illinois Institute of Technology track team will travel to Rockford Stadium in Rockford, Illinois, to participate in a triangular meet involving IIT, Rockford, and Milton Colleges. The Techawks already have victories over both schools this season, and their record now stands at 5-4.

In IIT's last meet they easily downed St. Procopius as they dominated the sprints and field events. The Techawks took ten out of fifteen first places, losing only the high-jump and the 440, 880, mile, and 2 mile.

Eight men will represent IIT this year at the annual Elmhurst Relays on Saturday, May 11. They are broad-jumpers George Huxhold, and Don Hervey, pole-vaulters Dave James and John Vomastic, high-jumper Wayne Leland, hurdler Len Johnson, and weight men Larry Bacon and Al Marske. Hervey, Leland, and Johnson all placed in last season's Relays.

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OR RELEASE:

IMMEDIATE

May 9, 1963

CHICAGO -- The twenty-fifth annual reunion of the 1938 class of Armour Institute of Technology (now Illinois Institute of Technology) will take place on May 17th in conjunction with the All-Alumni Reunion Dinner to be held in Hermann Hall on the IIT campus.

The class of '38 will meet at the Chicago Yacht Club the afternoon before the dinner for a cocktail party starting at 3:30 p.m.

At the dinner, IIT alumni will elect their national officers for 1963-64 and three alumni will receive special awards.

Wilber H. Armacost, M.E. '16, vice-president of Combustion Engineering Co. of New York, and recognized authority in the fields of steam generation and metallurgy, will receive the Alumni Association's Distinguished Service Award. The award is given annually to an alumnus for exceptional contributions to science and technology. Armacost was a pioneer in the development of design and materials adaptable to high pressures and temperatures and is credited with numerous contributions to improvements which have taken place during the last twenty years in the steam power industry.

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ADD 1 -- Alumni Reunion

Two service awards, presented for outstanding service and leadership in the Alumni Association and IIT, will be presented to Chester W. Hauth, secretary of Viking Automatic Sprinkler Co., and Anthony B. Ross, president of the Greylor Co. Both men are past presidents of the association and have been active in many phases of alumni work.

The entertainment program at the reunion dinner will be emceed by Ron MacAdam, comedy impressionist, and will feature two accordion-playing sisters, Jean and Joan Farrell, who have presented their singing, playing and dancing act in night clubs, musical comedies and on television. Also featured will be Jackie Van, a songstress who has appeared on WGN-TV, the Arthur Godfrey Show, Don McNeill's Breakfast Club, and at many Chicago hotels and night clubs, and Mary Kay a versatile organist. MacAdams does more than fifty voice impersonations, ranging from Sammy Davis, Jr. to President Kennedy.

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OR RELEASE: IMMEDIATE

May 10, 1963

CHICAGO -- Two students, from a total of more than 14,500 participants, were selected scholarship winners in the 13th annual Chicagoland High School Drafting Competition, sponsored by Illinois Institute of Technology.

The scholarship winners were Earl Allison, 10238 St. Lawrence St., Chicago, a student at Chicago Vocational High School; and Robert Mustari, 3630 W. 97th St., Chicago, a student at Brother Rice High School. Both received $1,200 one-year full-tuition scholarships to IIT. The winning entries were selected from more than 5,900 drawings submitted for final judging, which was done on a basis of correctness of problem solution and drawing quality. Students from 120 high schools in Chicago and suburbs participated in the contest.

The competition, which is sanctioned by the Chicago Board of Education and the Illinois High School Association, is open to any student enrolled in a drafting course in a Chicago area high school. An honors assembly for the winners was held today at Hermann Hall on the IIT campus and was attended by the parents, teachers, principals and friends of the winners.

-more-

ADD 1 --

In addition to the winners, two scholarship alternates were chosen: Peter Glasch, 8105 S. Washtenaw Ave., Chicago, of Brother Rice High School; and Robert Haegele, 9318 S. Laflin St., Chicago, of Calumet High School, who is currently attending IIT.

Prof. J. T. Dygdon, competition director, said the primary objective of the competition is to stimulate a greater interest in the fields of graphics, engineering and science, and to encourage students to continue their education beyond high school. It also, he said, affords a means of recognition of students of outstanding ability.

Besides the scholarship winners, a total of 126 students received prizes in six catagories. The first, second and third place winners were:

DIVISION ONE - INTRODUCTORY DRAFTING

First Place
Jim Kisner - Homewood-Flossmoor
2441 Spruce Rd., Homewood, Ill.

Second Place
James Aldermann - Homewood-Flossmoor
18521 Page Ave., Homewood, Ill.

Henry Witek - Weber
5211 W. School, Chicago, Ill.

Third Place
Edward Erhart - Morgan Park
10025 Charles St., Chicago, Ill.

John Micklo - Rockford East
2208 - 15th Ave., Rockford, Ill.

Gregory Tunstall - Bremen
16019 Trumbull, Markham, Ill.

-more-

DIVISION TWO - INTERMEDIATE DRAFTING

First Place
William Harvey - Mooseheart
Mooseheart, Illinois

Second Place
John Lucido - Rockford East
3040 Broadway, Rockford, Ill.

Gary Ross - Steinmetz
3937 N. Page, Chicago, Ill.

Third Place
Terry Lee - Bremen
15472 S. Lawndale, Markham, Ill.

Timothy Ohman - Homewood-Flossmoor
18719 Highland, Homewood, Ill.

Philip Powers - Morgan Park
11026 S. Hoyne, Chicago, Ill.

DIVISION THREE - INTRODUCTORY MACHINE DRAFTING

First Place
Bob Fowler - Mooseheart
Mooseheart, Illinois

Second Place
James Arlitski - Chicago Vocational
9010 S. Oglesby, Chicago, Ill.

Robert Wall - Rockford East
1734 Broadway, Rockford, Ill.

Third Place
Gary Nakai - Tilden Tech.
7121 S. Normal, Chicago, Ill.

Dennis Schiffer - Kelly
5801 S. Nottingham, Chicago, Ill.

Jack Travis - Mooseheart
Mooseheart, Ill.

-more-

ADD 3 --

DIVISION FOUR - INTRODUCTORY ARCHITECTURAL DRAFTING

First Place
Leslie Zeinfeld - Oak Park-R. Forest
1133 W. Columbian, Oak Park, Ill.

Second Place
David Hunden - Mooseheart
Mooseheart, Ill.

Benjamin Strong Jr. - Chicago Vocational
8744 S. Union, Chicago, Ill.

Third Place
Gene Andrzejewski - Chicago Vocational
8356 Mackinaw Ave., Chicago, Ill.

Perry Hallberg Jr. - Taft
6265 (G) N. Northwest Hwy, Chicago, Ill.

David Salois - Mooseheart
Mooseheart, Ill.

DIVISION FIVE - ADVANCED MACHINE DRAFTING

First Place
Fred Zelinsky - Mooseheart
Mooseheart, Ill.

Second Place
Tom Lukas - Mooseheart
Mooseheart, Ill.

John Wojciechowski - Chicago Vocational
9331 S. Kimbark, Chicago, Ill.

Third Place
William Doerr - Harlan
10146 S. Park, Chicago, Ill.

Glenn Hanzel - Kelly
5615 S. Melvina, Chicago, Ill.

Eugene Wojciechowski - Chicago Vocational
13424 Avenue M., Chicago, Ill.

-more-

ADD 4 --

DIVISION SIX - ADVANCED ARCHITECTURAL DRAFTING

First Place
Winfred Thornton - Chicago Vocational
733 E. 87 Pl., Chicago, Ill.

Second Place
Louis Klozik - Chicago Vocational
8539 S. Marquette, Chicago, Ill.

Anthony Loukas - Chicago Vocational
8138 Exchange, Chicago, Ill.

Third Place
Thomas Brookman - Prospect
1285 S. Ridge, Elk Grove Village, Ill.

Jack Furmanek - Chicago Vocational
8029 S. Manistee, Chicago, Ill.

Chester Malo - Chicago Vocational
10800 Torrence, Chicago, Ill.

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Liz Levy
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OR RELEASE:

IMMEDIATE

May 10, 1963

CHICAGO, ILL. -- "The True Strength of Real and Ideal Structures" will be the title of the final free public lecture in Illinois Institute of Technology's Sigma Xi series on May 15 This year the Distinguished Faculty Lecture, which traditionally concludes the Sigma Xi series, will be presented by Dr. Philip Hodge, Jr

His talk will deal with the plastic behavior of materials under large loads, a study which permits accurate prediction of the maximum load a structure can bear The lecture will begin at 8:00 p.m. in IIT's chemistry auditorium, 3255 South Dearborn.

Hodge received his A.B. degree in mathematics from Antioch College and his Ph.D. in applied mathematics from Brown University In 1957 he joined IIT's mechanics department after teaching applied mechanics at Brooklyn Polytechnic Institute.

Author of several books, Hodge has also published numerous papers in the fields of plasticity and plastic structural analysis

He has recently been elected to a five-year term of the executive committee of the applied mechanics division of the American Society of Mechanical Engineers

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John Love
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OR RELEASE:

IMMEDIATE

May 14, 1963

CHICAGO -- On Thursday, May 16, the Illinois Institute of Technology tennis team will host the Aurora College Spartans at the Lake Meadows Tennis Courts, located at 32nd Street and Cottage Grove. The match is scheduled to start at 3:00 sharp. The IIT Techawks are now 7-3, which includes an earlier win over Aurora.

Last Friday and Saturday the Techawks were entered in the Chicagoland Collegiate Championships held at the University of Chicago. Although senior Bob Golton was the only IIT man to make it to the finals, the Techawks managed to pick up enough points to place third behind DePaul and UIC. Golton played excellent tennis in beating DePaul's top man to capture the number one singles championship.

The Aurora match will be the last outing of the season for IIT. Coach Harry Ault is hoping Aurora will be a climax to one of IIT's most successful seasons in years.

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IMMEDIATE

May 15, 1963

CHICAGO -- A leading Chicago educator tonight warned a group of investment experts that "it is moral and economic suicide to indulge in fantasies of a future where there will be so few jobs available that only an elite will be allowed to work while the remainder of society consumes. There must be jobs for all."

"If we are to survive on the national level," continued Dr. John T. Rettaliata, president of Illinois Institute of Technology, speaking to the annual meeting of the Financial Analysts Federation at Chicago's Palmer House, "we must devise new economic instruments and techniques. . .American industry is recognizing that its survival depends on creating more jobs and new jobs by making a better product at a cheaper price. Increased efficiency and new products provide the only hope for maintaining a healthy profit level. The means for this are present--but they are only partly visible."

Citing the experience of IIT's Armour Research Foundation, Rettaliata told the financial analysts that he was aware that they had a key role in helping industry and the investing public to see the relationship between fruitful research and development and a healthy economy.

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ADD 1 --

Comparing the analysts with scientists, the IIT president said they had much in common. "Like all other researchers," he told them, "you rely upon known data to point the way to unpredictable consequences. Like the scientist, you are incapable of living in the past, for investment implies faith in the future. I am sure you believe in our strange and hazardous modern world and in man's capabilities to cope with it, for there is really no other place to put our money with any hope of a future return."

"We can no longer afford to assume," Rettaliata went on, "that a healthy, expanding, and productive economy is the birthright of every American citizen. We can no longer assume that our future is assured because we have been blessed with great natural wealth, personal initiative, and technological know-how. Until recently, it has been all too easy for us to make this tacit assumption. Our industrial superiority has been so great--we have been producing such an overwhelming percentage of the world's manufactured goods--that it has been hard for us to imagine, much less take seriously, any threat to the dominant position we have enjoyed in the twentieth century."

"One of the facts of life in this second half of our century," Rettaliata declared, "is that there is no longer any such thing as a technological monopoly. The new technological revolution is a world revolution. Within our lifetime we have seen Russia emerge as recognized industrial power and the leading contender for economic dominance. It is predicted by reasonable men that China may become

such a power in a few decades. In even less time, Western Europe has rebuilt from the total devastation of World War II and created an industrial and economic force that challenges us in areas where our vaunted industrial and technological know-how is considered the most sophisticated. On a lesser scale, Japan has made an equally impressive comeback."

Rettaliata pointed out that the devastation suffered by other nations during the war was in some ways a blessing in disguise, since it permitted them to build a modern industrial plant from scratch, while the United States retained much of its obsolescent plant.

In speaking of the American future, Rettaliata said that one fact about it was already evident: it will be predominantly urban. He pointed out that one of the most significant triumphs of American technology was in agriculture, the result being swarms of displaced rural people crowding our cities. "One of the real manifestations of the fact that a totally new era is upon us is a negative one," he said, "the plain fact that most of our cities have become physically obsolete." He observed that his own institution, IIT, had made up its mind more than two decades ago to stay and help reshape the central city rather than flee to the outskirts.

Rettaliata stated that, while the technological revolution has made comparatively little difference in the day-to-day life of the average man from what it was twenty years ago, this was now changing.

ADD 3 --

He cited electronic communications with Europe via Telstar as an example of this, mentioning that he had himself talked to Paris via Telstar I.

Financial AnalystsFederation members from England, France, Germany, the Netherlands, Japan and Canada, as well as from the United States attended the meeting, which is being held through Wednesday at the Palmer House.

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John Love
VI 2-9417

OR RELEASE:

IMMEDIATE

May 16, 1963

CHICAGO -- On Saturday, May 18, the Illinois Institute of Technology track team will travel to River Forest, Illinois, to enter the Concordia Relays, which determines the small college champions in the Chicago area. Although IIT has lost to three of the entered schools in dual or triangular meets, the Techawks are extremely strong in the field events, as was shown last Saturday at the Elmhurst Relays.

At Elmhurst George Huxhold and Don Hervey took second and fourth respectively in the broad jump, Larry Bacon set a school record of 187' while taking third in the javelin, and Dave James tied for second in the pole-vault. Al Marske, who recently threw the discus 127' for a new school record, has thrown it over 140 in practice and hopes to reach his peak Saturday. High-jumper Wayne Leland is also hoping to better his school record of 6'2".

The IIT record now stands at 7-4 after a triangular win over Rockford and Milton Colleges last Thursday. The Concordia Relays will mark the close of the 1963 season for the Techawks.

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OR RELEASE:

IMMEDIATE

May 16, 1963

CHICAGO -- Chicago area high school seniors can now get a tuition-free preparation for college courses in biology, a spokesman for Illinois Institute of Technology announced today.

Commenting on IIT's new biology institute scheduled to begin this fall, Dr. Leslie Hedrick said that the purpose of the Institute is "to give talented students interested in a scientific education the opportunity to broaden their knowledge of biology." Dr. Hedrick is chairman of IIT's biology department and director of the Institute. He emphasized that any high school senior who has had one year of biology, one year of high school chemistry and is in the upper twenty five per cent of his class is eligible to participate.

Institute lectures will include the examination of new concepts and information in experimental embryology. In addition, explanations of classical and modern experiments in developmental biology and modern techniques used in embryology will be introduced.

At the completion of the program, participants will receive academic recognition in form of a certificate of achievement and high school principals will be requested by the Institute director to note the achievement on the student's record.

Participants in the biology program will meet on the IIT campus beginning September 21, for six alternate Saturday mornings.

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May 16, 1963

CHICAGO, May 17, 1963 -- The first presentation of Illinois Institute of Technology's new John J. Schommer memorial scholarship was made tonight at IIT's annual reunion dinner, Dr. Thomas Hogan, IIT dean of students and chairman of the Schommer scholarship committee announced today.

Offered jointly by IIT and its Alumni Association, the scholarship was accepted by Conrad L. Caswick, a fourth semester electrical engineering major. The award will cover full tuition for one year.

The Schommer award was established in memory of John J. Schommer, one of America's all-time greats in athletics and is awarded annually to the student whose record of academic achievement and extra-curricular activities comes closest to exemplifying a spirit similar to Schommer's.

Schommer was selected as a member of the 1908 U. S. Olympic track team. From 1910 to 1942 he was a big ten football and basketball official. At the time of his death in 1960 he was serving on IIT's board of trustees.

An honor student and player on the IIT varsity basketball team, Caswick also holds down a grade point average of 3.56 out of a possible 4.00. He is the son of Mr. and Mrs. Leo Caswick and resides with his parents at 2524 S. Stark, Chicago.

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IMMEDIATE

May 17, 1963

CHICAGO, ILL. -- Conservation of crucial rocket fuel during space flights may result from a series of supersonic wind-tunnel experiments recently conducted at Illinois Institute of Technology, Dr. Andrew A. Fejer, director of the IIT mechanical engineering department announced today.

Under Fejer's direction, research assistant Jean Pierre Josse conducted a series of experiments sponsored by the U. S. Air Force which provides data for the design of an efficient rocket guidance system. His experiments showed that the response of rocket guidance systems could be speeded up, and fuel thus conserved, by directing the thrust of auxiliary rockets (used to change a space craft's course) inward into the main rocket nozzle, rather than outward away from the main rocket flow as had been done previously.

Josse established that when the auxiliary rocket is expelled inside the main nozzle its effectiveness is increased threefold.

This means that the period of time during which the auxiliary rocket must be fired to achieve a given change in direction is reduced by two thirds, thus conserving fuel. By directing the auxiliary rocket thrust into the main rocket flow, an asymmetry or

-more-

ADD 1 --

imbalance is set up in this flow. This imbalance gives rise to lateral forces, thus changing the space craft's direction.

In interplanetary flights, a combination of inward and outward-directed auxiliary rockets will be necessary, since inward-directed rockets are not effective when the main rocket engines are not firing. Once cruising speed is reached the main rocket is shut off, and outward-directed rockets can guide the space craft until the main rocket engines are refired for re-entry or landing.

Despite the fact that guidance systems for interplanetary flights would still demand the outward-directed rockets, fuel savings would nonetheless be substantial because the inward-directed rockets could be utilized at the crucial times of take off, re-entry and landing.

Among the experiments Josse performed were many designed to determine the optimum size, shape, dimensions, and location of the openings through which the secondary stream is introduced into the main flow.

Josse pointed out that further experiments are necessary to investigate the effect of changes in supersonic velocities of the gas in the rocket thrust direction. By varying the velocity of gas, the scientist can analyze the effect gas flow has on the rocket's efficiency.

It is likely that U. S. Air Force will subject Josse's findings to tests on full-size rockets, Josse stated.

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Note to Editors: Picture and caption sent to photo editors.

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May 20, 1963

CHICAGO -- David Woodrow Crickette, a junior in the industrial engineering department, has been elected captain of the 1964 Illinois Institute of Technology golf team. Crickette is the son of Mr. and Mrs. Joe Vella of 2716 E. State Street, Rockford, Illinois. He is a 1960 graduate of Rockford's East High, where he played two years of golf and one year of basketball. This season was Crickette's second one on the IIT squad, where he played in the number three position. His other activities at IIT include Delta Tau Delta National Social Fraternity and the American Institute of Industrial Engineers.

The 1963 squad finished fourth out of eight teams this year in the Chicago Collegiate Championship Meet held last week. The season was highlighted with a solid beating of the University of Chicago and a narrow loss to a very strong Loyola team.

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OR RELEASE:

IMMEDIATE

May 24, 1963

CHICAGO -- Bernard "Sonny" Weissman, the athletic director at the Illinois Institute of Technology has announced golf awards for the 1963 season. Captain Jim Brackney received a major letter, while minor awards went to John Collins, Dave Crickette, Dwight Hull, Wayne Kosterman, and Henry Myers.

The team finished the year with a 1-5 mark. However, they captured fourth place in the Chicagoland Intercollegiate Championships.

David Crickette, a junior industrial engineering major from Rockford, Illinois, has been elected captain of the 1964 team. Jim Brackney is the only graduating senior, so next year's prospects look to be better.

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OR RELEASE:

IMMEDIATE

May 24, 1963

CHICAGO -- The Illinois Institute of Technology Athletic Director Bernard "Sonny" Weissman today announced the track awards for the 1963 season. Major letters went to Larry Bacon, Don Hervey, George Huxhold, David James, Len Johnson, Wayne Leland, John Love, Chuck Maltese, and Keith Snuggerud. Minor awards were given to John Vomastic and Al Marske.

The 1963 team completed the season with a 11-5 record, the best in several years. The team also managed a sixth place in the Elmhurst Relays and took second in the Chicagoland Independent Meet at Concordia. School records were broken this season by Larry Bacon--187'10" in the javelin, George Huxhold--22'10" in the broad jump, Dave James--12'3" in the pole vault, and Al Marske--128'5" in the discus.

Next season's team will lose only Bacon, Hervey, and Love.

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OR RELEASE:

IMMEDIATE

May 24, 1963

CHICAGO -- The establishment of a new integrated five-year program designed to train metallurgical engineering students as professional engineers who will be equipped, upon completion of the curriculum, to apply theory to practical problems in industry, was announced recently by Dr. Lucio F. Mondolfo, director of the department of metallurgical engineering at Illinois Institute of Technology.

Graduates of the new program will receive the degree of master in metallurgical engineering. Unlike master's of science degree candidates, however, participants in the new program will not concentrate primarily upon basic research, but will practice the use of science to solve practical industrial problems.

In addition to the new program, the traditional curriculum for the master's of science degree will be retained in the department for those students whose main interest is in scientific research and teaching, many of whom will go on to obtain the Ph.D. degree. The department will also retain its regular four-year course for the bachelor's degree.

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ADD 1 --

Starting next fall the first three years of work will be the same for all students in the metallurgical engineering department. They will comprise the basic sciences such as mathematics, physics, chemistry, and the engineering sciences such as mechanics, thermodynamics, materials science, electronics, together with the appropriate liberal arts and accessory subjects. At the end of the third year qualified students have three choices: (1) The regular program that consists of one year of engineering analysis and leads to a BS degree; (2) the new master of engineering program in which two additional years of engineering science and analysis give the student a more complete preparation necessary for industrial work; (3) the research and teaching program which involves more basic and engineering science, together with active research and leads to an MS or a Ph.D. in Met. Eng.

This innovation in the metallurgical engineering department is considered only a beginning, since similar five-year programs are being considered for other IIT departments.

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FOR RELEASE: IMMEDIATE

May 27, 1963

CHICAGO -- Tennis awards at the Illinois Institute of Technology have been announced by athletic director Bernard "Sonny" Weissman. Captain Wayne Davis received the blanket award, which is only given to a senior who has lettered for four years. Jim Fitzgerald, Al Hansen, and Vic Morgenstern received major letters, while Frank Kulacki, Rex Poggenpohl, and Al Unikel received minors. Terry Beal, Les Bunch, Bob Golton, and Glenn Short were given special mention, although they didn't play in enough matches to qualify for a letter. Senior Bob Golton was especially outstanding, as he went unbeaten in five singles matches and won the Chicago Intercollegiate Championship in the number one singles.

This season's team finished the year with a very respectible 8-4 record. They also netted the third place spot in the Chicago Intercollegiates. Under the guidance of coach Harry Ault, they finished the year with one of IIT's best records in recent years.

Vic Morgenstern, a sixth semester chemical engineering major, has been elected captain for the 1964 season. Prospects look bright for next season with only Golton, Davis, and Kulacki graduating.

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FOR RELEASE: IMMEDIATE

May 28, 1963

CHICAGO -- Athletic director Bernard "Sonny" Weissman has announced letter awards in baseball for the 1963 season. Major letters were awarded to Jim Brown, Dick Byrne, Jerry Farro, Gary Flanagan, George Frank, Joel Goldberg, Rich Hanus, Jay Klompmaker, George Kriz, Ralph Larson, Jim Pryzewoznik, Tom Rossiter, Keith Stowe, Dave Wendtland, and Marty Wengel.

The team finished the season with a 2-17 record by splitting a double-header with Concordia College of River Forest.

Rich Hanus, a fourth semester math major from Berwyn, Illinois, has been elected the 1964 captain. Hanus was the leading hitter on this season's team, as he was last year. He prepped at Morton East High School, where he played on the 1961 State Championship team and was selected to the All-State team.

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OR RELEASE:

IMMEDIATE

May 28, 1963

CHICAGO, ILL. -- The Society of Typographic Arts will present its 36th annual exhibition of graphic art in the Chicago area, the oldest such show in the country, at Illinois Institute of Technology June 7 to 28.

"It will be a pacesetting show," said Carl Regehr of Carl Regehr Design Inc. and exhibition chairman, "because this year, to be traditional is not enough." Regehr stresses that since the whole purpose of graphic art is to communicate with the public, it must keep pace with modern communication techniques.

Graphic art is not "Art for Art's sake," but art which has the specific purpose of delivering a message. Each successful book or record jacket, poster, booklet or announcement is the solution to a communication problem, Regehr said.

"The artist must capture the essence of the problem and communicate it through the discipline of his graphic art form," Regehr continued. "In fact the graphic artist can be considered the architect of the printed page."

Promising a provocative and controversial show reflecting Chicago's current top design ideas, rather than a broad area of traditional design, Regehr pointed out that this exhibit will stress the design leadership for which Chicago is outstanding today.

-more-

ADD 1 -- STA Exhibit

"By gathering and displaying only design ideas in the creative vanguard of the field, we hope the Society of Typographic Arts show will set the pace for future graphic design," Regehr said.

From over 1200 entries submitted to STA, an organization dedicated to promoting high standards of quality and creativity in the graphic arts, judges representing advertising, industrial design and the printing industry selected 96 pieces of work, including three pieces from Illinois Institute of Technology's Institute of Design.

The free public exhibition will be held in Grover M. Hermann Hall, IIT's student union building, at 33rd and Dearborn Sts.

Pierre Martineau, director of research and marketing for the Chicago Tribune, will be guest speaker at a dinner on June 7, opening night of the exhibit.

The dinner, which will be held in the ballroom of IIT's Hermann Union Building, will be preceeded by a social hour in the faculty club at 6:00 p.m. Cost will be $5.00 per person. The public is invited.

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FOR RELEASE:

IMMEDIATE

May 29, 1963

CHICAGO -- Two one-semester sociology courses will begin at Illinois Institute of Technology this fall as a service to the Chicago area high school teaching profession.

The program will describe the methods and basic concepts of sociology in the first course, and the application of these principles to political sociology, the sociology of religion, urban sociology and the sociology of science in the second, according to Dr. Daisy Tagliacozzo, associate professor of sociology and director of this sociology program.

Pointing to the need for such a program, Dr. Tagliacozzo said, "The importance of sociology for the high school social studies curriculum has been emphasized for many years. Despite this emphasis and the development of sociology into a more sharply focused and methodologically controlled discipline, many teachers have had little opportunity for formal training in this social science. We hope to take the first step in this direction by offering this program. During the second semester, we also intend to provide information about recent developments in specialized areas of sociological inquiry to those teachers who already have had formal training in sociology."

-more-

ADD 1 --

Talks on recent developments in their fields will be given by professors of IIT's department of political and social science and by guest lecturers from other universities. Participants completing the courses will receive academic credit.

Although the institute is open to any Chicago area high school social studies teacher, only a limited number can be accommodated. They will be selected according to sequence of application. Application to IIT's department of political and social science should be made before the beginning of July.

The courses will meet on the IIT campus on Saturday mornings for approximately 15 weeks each.

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Ed Hansen
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FOR RELEASE:

IMMEDIATE

May 31, 1963

CHICAGO -- "Technology News," the student newspaper of Illinois Institute of Technology, is one of five college newspapers in the United States selected by the American Newspaper Publisher's Association and the Associated Collegiate Press for their 1963 "Pacemaker" award for general excellence, the ANPA announced recently.

The award to the IIT campus newspaper cites "Technology News" for "meeting the needs of its student body in excellent fashion. It displayed good typography and gave the impression of a clear, very sharp newspaper." The awards will be presented to the winning papers at the Associated Collegiate Press annual convention, Oct. 17-19, at the Hotel New Yorker in New York City.

The other winners were the student newspapers of Evansville College, Evansville, Ind.; Tulane University, New Orleans, La.; University of Miami, Coral Gables, Fla.; and Michigan State University, East Lansing, Mich.

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FOR RELEASE:

IMMEDIATE

June 3, 1963

CHICAGO -- Methods developed to cope with the learning difficulties of handicapped children are beginning to help normal children overcome their learning problems also, George S. Speer, director of Illinois Institute of Technology's Institute for Psychological Services stated here today.

A severely handicapped child often has a distorted perception of reality as a result of defects in his sensory apparatus. This is a magnification of a very common difficulty hindering the learning of normal children. Frequently, emotional problems are considered to be the key to children's learning difficulties. But in fact, subtle organic difficulties may be giving the child problems in perception. Despite the fact that a child has 20/20 vision, he may be reversing symbols and consequently may be a slow reader. Thus, advances in teaching normal children will be an added dividend gained from insight into handicapped children's perceptual difficulties, according to Irving Millstein, assistant director of the Institute for Psychological Services' reading service.

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Currently Millstein is conducting an educational consulting program at the Illinois Children's Hospital-School, 2551 N. Clark St., Chicago, a state-supported institution for children with physical and neurological handicaps too severe to permit them to attend regular school. Open to those children who are educable, i.e. those with average intelligence, Illinois Children's Hospital-School provides a home, medical care and schooling for 96 handicapped children and young adults between the ages of five and twenty.

Despite their normal intelligence, damage to the children's central nervous systems may cause such difficulties as language disorders or lack of muscular control and interfere with their perception of the world about them. Thus it is often difficult to communicate with them and to teach them, Millstein pointed out.

In fact, communication problems with children who either cannot talk or who lack the usual background of physical and intellectual experience is the most serious obstacle encountered in teaching the children, and demands a great deal of ingenuity and empathy on the part of the teachers, Millstein continued.

"Psychologists and teachers working with these problems must become adept at manipulating everything at their disposal to substitute for normal speech, such as sign language, alphabet boards, work boards and pictures," he said.

ADD 2 --

Now completing its first year, IIT's education program is designed to improve the teaching techniques employed by Hospital-School teachers. Millstein stressed "that the lectures, seminars and demonstrations held by staff members of the Institute for Psychological Services for the Hospital-School staff emphasize the extreme importance of each child's individual problem, the necessity of creating individualized materials, and the development of successful techniques for communicating with the severely handicapped."

The Illinois Children's Hospital-School works toward the goal of rehabilitating these handicapped children within a period of three years. The school program is set up to help the children master the normal work load of at least one school year over a two year period. This method helps prepare the children either to find work or to continue their education through the local facilities, thus returning to their communities, Millstein explained.

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FOR RELEASE:

IMMEDIATE

June 6, 1963

CHICAGO -- Undergraduate and graduate degrees in science writing and science information, the first program of its type, will begin this fall at Illinois Institute of Technology.

"The programs are designed to help solve the growing communication needs of business, industry, and scientific research organizations," said Dr. Henry Knepler, chairman of IIT's language, literature and philosophy department.

Pointing out that this is a highly experimental program, Knepler said that little organized work has been done in this country to combine communications skills with the sciences, engineering, and medicine.

In emphasizing the need for such programs, Knepler said that the increasing complexity and specialization of today's world demand a new field of professionals specially trained in both science and communication techniques to make technical information intelligible through trade journals, newspapers, magazines, and within the scientific community itself.

"Today, scientific writers with liberal arts degrees have to struggle to acquire the background in science, medicine or engineering

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demanded in their profession. Science majors, on the other hand, may lack skill in expressing themselves effectively," Knepler added.

"Scientific and technological institutions which also have strong liberal arts programs must take the lead in solving this modern communications problem," he went on.

A unique aspect of IIT's program is the plan to assign students to practice their skills (during the course of the programs) at institutions located on the campus: the Institute of Gas Technology, IIT Research Institute and the John Crerar Library.

Explaining this arrangement, Knepler said, "If the student intends to devote himself to educational training materials and their design, he may work in the Institute of Gas Technology which has an intensive correspondence course program. If he intends to write and edit research proposals and reports, he may practice his writing at IIT Research Institute (formerly Armour Research Foundation.) If he is interested in writing on science and technology for the general public, he may work on some of IIT's publications designed for that purpose."

It is expected that students will work with IIT's UNIVAC and IBM computers as a means of gathering and analyzing information. Particular emphasis will be placed on the computer's ability to translate, and thus convey scientific information in foreign languages, Knepler said.

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ADD 2 -- Science Writing

Those completing IIT's new programs should be well prepared for careers in business, industry, scientific and medical research organizations. They may edit or write proposals, manuals, progress reports and articles for professional journals, newspapers and popular magazines. Or they may abstract or conduct library research with scientific, technological or medical materials.

"Women as well as men wishing to combine their interest in science and communications can excel in this area," Knepler concluded.

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FOR RELEASE:

IMMEDIATE

June 7, 1963

CHICAGO -- Ten Chicago-area high school chemistry teachers recently completed a unique in-service course in the theory and use of modern chemical instruments at the Illinois Institute of Technology.

This course is one of a series of courses at IIT sponsored by the National Science Foundation and aimed at raising the level of high school teaching of science and mathematics. In the chemical instrument course, the teacher-students met each Saturday during the Spring semester for two hours of lectures and three hours of laboratory work under the direction of Dr. Rubin Battino, assistant professor of chemistry at IIT.

During the semester, each teacher constructed instruments such as potentiometers, polarographs and electrical test meters, which he took back to his high school at the completion of the course.

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Teachers participating included (L-R): G. W. Buehrer, Harper High School, Chicago; Michael Agin, Riverside-Brookfield High School; Clayton Fawkes, Glenbard East High School, Lombard, Ill.; William E. Lewis, Lane Technical High School, Chicago; Dr. Battino; Richard L. Hall, Evanston Township High School; Richard Fee, Riverside-Brookfield High School; Douglas A. Halsted, Evanston Township High School; Frank Maes, Lane Technical High School, Chicago, assistant in the course; Mervin Paul, Senn High School, Chicago; Tom Leman, Glenbard West High School, Glen Ellyn, Ill.; and Brother I. Dennis, St. George High School, Chicago.

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FOR RELEASE:

6:00 P.M., June 7, 1963

June 5, 1963

CHICAGO, June 7 -- "What man neglects of the wholeness of his being sooner or later avenges itself on him. We thus have the phenomenon of scientists turning philosophers at the end of their lives and making fools of themselves."

This observation was made in an address tonight by Dr. Charles H. Malik, Lebanese diplomat, philosopher and educator, to the graduating class of Illinois Institute of Technology during commencement exercises held at Chicago's Orchestra Hall. Dr. Malik, who has been president of both the Security Council and the General Assembly of the United Nations, received an honorary doctor of laws degree from IIT President John T. Rettaliata at the ceremony. His speech was entitled "Science and the Humanities."

In discussing the pitfalls into which scientists stumble if they neglect to concern themselves with the humanities, Dr. Malik asserted: "They make the silliest statements about final things. In dissecting their frogs, elaborating their logical symbols, and spinning their abstract systems of thought, they acted as though the final things, the things of truth, beauty, suffering, goodness

-more-

and God, did not exist. But since they do exist, and since scientists have been unnaturally parched for them all their lives, when they do remember them under the pressure and exigencies of events, or because they are at last approaching their graves and are beginning to wake up to the fact that perhaps something extraordinary and important has been missed by them all their lives, or has not been sufficiently developed in them, it is then, alas, too late."

Malik cited Dr. Einstein "pontificating about God" and Sir Julian Huxley, British biologist, "pontificating about man," as examples of scientists-turned-philosophers who "make the theologian, the philosopher and the poet simply smile."

The Lebanese scholar defined science as the "politics of nature" because in it, man is in control. However, he pointed out, there are a number of limitations on this control, among them the fact that scientists are not alone in the world and are limited by other scientists. "If you have not seen scientists quarreling with and intriguing and harboring terrible grudges against one another, you have seen nothing. Before the infinite and sometimes inhuman challenge of winning the respect and recognition of his peers the scientists is far from being in control."

Malik also mentioned other limitations on the scientist caused by other people who are as proud of what they represent and are as the scientist is. "For example," he said, "the statesman or administrator will gladly accept to consult and use the scientist, but generally speaking he will balk at the scientist dictating policy to him."

ADD 2 --

In speaking of the present concern about space exploration, Malik stated that people have tended to read in the probability of life and intelligence elsewhere in the universe all sorts of fantastic possibilities.

"They believe," he said, "that we might find more mature civilizations there than what has arisen on the earth. The best of us would appear children beside these civilizations. Their science would completely overshadow and supersede our science. And above all, they would be free of 'religious superstitions;' and in fact our mere discovery of them would prove there is no God."

Malik discounted all this, saying that since beings on other planets would be limited and subject to death, just as are men on earth, there would be no reason to be overawed by them. He argued that because of this, scientists like Harvard astronomer Harlow Shapley who have concluded on the basis of strict scientific calculations that there are in the universe billions of heavenly bodies with a material environment not dissimilar to that on earth, and that therefore it is virtually certain that there are innumerable places in the universe where life and intelligence meet, have proven "absolutely nothing, either about life, about man, or about civilization, or certainly about God."

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FOR RELEASE:

IMMEDIATE

June 10, 1963

CHICAGO -- A low-cost and long-life fuel cell for efficient on-site conversion of natural gas to electricity in both home and industry is being developed at the Institute of Gas Technology (affiliate of Illinois Institute of Technology, Chicago).

The fuel cell is the only energy conversion device capable of producing inexpensive electricity in the 1 to 10-kilowatt range required for individual dwellings.

Its potential efficiency, which may exceed 80 per cent, surpasses that of the most modern power plant, rated at only about 40 per cent efficiency.

Conceivably, large fuel cell installations may in the future be used to supply power to shopping centers, schools, apartment houses, or groups of homes.

Among the fuel cell applications foreseen within the gas industry are the supplying of power for instrumentation and control at pipeline compressor stations; for liquefied natural gas storage facilities; and for cathodic protection of gas pipelines against corrosion.

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ADD 1 -- Fuel Cell

Hospitals and communication centers may call upon them for stand-by power, and strategic military installations could use them at times of national crisis. The aluminum and other electrochemical industries can use fuel cells as a low-cost source of d-c power.

Basic Operation of the Cell

Fuel cell operation is similar to that of a storage battery, but instead of consuming the materials in the battery, the cell utilizes a fuel and air, which are fed continuously.

Because natural gas will not react rapidly enough in a fuel cell unless very high temperatures or expensive catalysts are employed, it is converted to a more active form.

This is achieved in the IGT cell by passing one portion of the incoming natural gas through a sulfur-removal cartridge and then into a reforming unit, where it reacts with steam in the presence of a catalyst to convert it to carbon dioxide and hydrogen. The hydrogen-rich stream is fed into the battery of cells.

Another portion of the gas is fed to a burner to maintain the battery of cells at the operating temperature of 900° F and also provide the heat needed for the reforming reaction. In the past year, the temperature requirement has been lowered from 1100° F.

The carbon dioxide and oxygen needed at the cathode to complete the electrochemical reaction are supplied by the flue products from the gas burner.

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ADD 2 -- Fuel Cell

At its present stage of development, the individual cell can generate about 25 amperes per square foot of effective area at 0.5 volt. The prototype 6-inch square cells produce about 3 watts at 0.5 volt per cell.

Smaller models of these cells have operated continuously for over 5000 hours with no decline in performance. In terms of natural gas used, one therm, about 10 cents worth, could produce as much as 20-kilowatt-hours of electricity in such a device.

IGT's Fuel Cell Research Program

IGT fuel cell research, sponsored by the American Gas Association's PAR (Promotion-Advertising-Research) Plan, is currently being directed toward improving the power output and lifetime of the individual cell and reducing the cost of some of its components. Institute engineers are also solving problems associated with the stacking of individual cells in series for constructing a complete power pack assembly.

Already the cost of fuel cell component hardware has been reduced--from $20 per watt two years ago to the present 20 cents per watt, with greater reduction in sight.

New electrolyte compositions, making possible the use of commercially available electrode materials in a modified cell assembly, account for the savings. While power density and voltage efficiency were doubled, anode costs decreased approximately a hundredfold.

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ADD 3 -- Fuel Cell

Project engineers foresee, in 1964, the building of a 500-watt prototype unit; and in 1965, the testing of additional prototype units in selected field locations, and submitting of design specifications to manufacturers for construction of several identical units.

Then, contingent on the results of field tests, work in 1966 and 1967 will progress to construction of larger units in the 2-kilowatt range for use as test power sources for individual dwellings.

Visualizing the Domestic System

Utilization engineers at the Institute visualize the domestic system as comprising the power pack; means for recovering waste heat from the pack for space heating, air conditioning, and water heating; storage batteries to improve load cycle conditions, and a d-c inverter unit to supply services requiring 60-cycle alternating current.

However, they point out that domestic application would be attractive only if the savings in fuel cost of natural gas over purchased electricity were sufficient to pay out the investment within a reasonable time.

Even before the power pack is fully developed to supply heat and electricity in the home, the fuel cell may be used to provide standard power for electrical attachments to gas appliances, such as blowers in gas furnaces.



Note: Photo sent to photo editors.

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